## chemicalweek

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| A   |             |          |          | Care Skin Lotion R Skin lotion ad claims' nonruling: P&G and Chesebrough-Pond's can still say they sell the best | Jan<br>June |             | 18       | Air Products' expansion at Calvert City,<br>Ky. R<br>Deutsche Texaco route to secondary  |
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| heaveller   |             |          |          | Prescription drugs: reactions to direct  |             |             | 76       | butanol N Diacetone alcohol prices N   |
| Analyzing a multicomponent liquid stream  | Mar 2       | 28       | 33       | Aeronautics  | Apr         | 23          | 70       | Ethanol see Ethanol Ethylene vinyl alcohol: Owens-Illinois   |
| ICI's separation device will be mar-<br>keted by Glitsch N  | June 2      | 20       | 26       | Airline safety's boost for fibers: FAA calls for fire-blocking seat fabrics                                      | Feb         | 15          | 13       | multilayer plastic bottle using EVAL Gasohol see <b>Gasoline</b> — Gasohol   |
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| (chart)   | Apr 1       | 11       | 44       | Aerosols CSMA product survey: An upward path   |             |             |          | PVA: Air Products' expansion R<br>USDA will fund grants for alcohol fuels  |
| Pension accounting in dispute: FASB's proposal called "conceptually unsound" cetaldehyde — Prices N         | Jan '       |          | 13       | for aerosols Hair-care mousses: a boost for chemi-   | May         |             | 21       | Alfred University — Santak acquires ii.  |
|   | June 1      | 13       | 24       | icals Africa see individual countries  | Mar         | 21          | 71       | cense to test Shively's ethanol-making process R   |
| cetals Acetal resin market: action heats up . N Celanese stakes out a new resins                            | Mar         | 7        | 24       | Agricultural Chemicals Agricultural patent reform bill: Glick-   |             |             |          | nitrogen fertilizer  |
| facility  | Feb         | 8        | 9        | man's bill Allelochemicals: Plants that produce  | May         | 30          | 15       | Algeria<br>LPG capacity may be a bonanza for   |
| Pacific's cast-acetate-film operation at Newark, N.J.   | Feb         | 15       | 9        | their own herbicide  | May         |             | 28       | Europe's petrochemical makers<br>(chart)   |
|   |             |          |          | to germinate   | Apr         | 25          | 11       | LPG: Europeans eye LPG   |
| Air Products' expansion at Caivert City, Ky. R  | Mar         | 21       | 19       | engineered farm products: 'Possibly<br>the largest' bioventure<br>Drexel Chemical acquired by Kema-              | June        | 20          | 15       | ings   |
| Monsanto plans more acetic acid ca-<br>pacity   | Jan<br>June | 25       | 9<br>60  | Nobel  | Mar         | 28          | 22       | onstream   |
| cetic Anhydride — Eastman's acetic anti-ydride rom coal plant at Kingsport,                                 | Julie       | 20       | 00       | research stations  | Mar         | 28          | 19       | their own herbicide  |
| Tenn. with Texaco gasifiers and some processing wrinkles (diagram)  | Apr         | 18       | 34       | agchem research N<br>Great Britain's popular pesticide rule:   | Apr         | 4           | 9        | Alloys   |
| — Letter<br>cetylcholinesterase — Nerve gas anti-   | June        | 27       | 5        | industry counts on stricter safety<br>regulations to curb imports (chart)  | May         | 23          | 16       | Allied receives Japanese patent on<br>Metglas amorphous metal alloys R<br>Ingersoll-Rand develops new corrosion  |
| dote may result from Bio-Response contract from Army N  | Feb         | 29       | 28       | Help wanted in agricultural technology   | Feb         | 1           | 30       | resistant casting alloy N<br>Metallic superalloys demand to grow . N   |
| Acetylene Chemical prices N   | Jan         | 25       | 24       | low-till farming (table)  Seed research partnership to be formed   | May         | 9           | 12       | Plastic alloys: strong growth looms:<br>C.H. Kline study   |
| Acetylene chemical prices N<br>BASF Wyandotte plans acetylene<br>chemicals plant in Geismar, La R           | Mar         |          | 18       | by Rohm and Haas Seeds and Coker   | Jan         | 25          | 17       | garlic's active ingredient   |
| prices  | Apr         | 4        | 26       | Pedigreed Seed R CR Seeds, joint venture, formed R Agricultural Chemicals see also <b>Herbi</b> -                | Mar         | 14          | 24       | Alumina  |
| Comparis, also see under indi-  |             |          |          | cides; insecticides  |             |             |          | Alumina chemicals: Looking for an<br>upturn; producers betting R&D or  |
| vidual companies in Company Index   |             |          |          | Agronomy Chemicals from 'wild' plants Seed research partnership to be formed                                     | May         | 16          | 30       | flame retardants, catalysts and cer-<br>amics.  Greece plans alumina refinery: Soviel  |
| Diatec Polymers brings acrylamide polymers plant at Batavia, ill. on-                                       |             |          |          | by Rohm and Haas Seeds and Coker<br>Pedigreed Seed R   | Jan         | 25          | 17       | Union signs letter of intent N   |
| Stream R Monomer prices N   | Mar<br>June |          | 24<br>16 | CR Seeds, joint venture, formed R  | Mar         |             | 24       | Aluminum   |
| Nitto Chemical Industry's acrylamide<br>plant will use biocatalyst N Apr                                    |             |          |          | Air Pollution<br>Acid rain   |             |             |          | Alcan's Laterriere aluminum smelter a<br>Chicoutimi, Que. plans move for   |
| 11-30 N<br>crylic Esters — Prices N   | May<br>Feb  | 16<br>22 | 44<br>28 | Further wrangling over acid rain measures N  | Mar         | 28          | 48       | Alumax chooses Quehec as site for<br>aluminum plant because of cheape  |
| crylics — Lead acrylic polymer: A lower cost shield from radiation crylonitrile-butadiene-styrene (ABS) see | Apr         | 25       | 69       | OTA report says acid rain endangers health   |             | e 27<br>25  | 102<br>5 | electrical rates   |
| Plastics  |             |          |          | Letter USGS reports that acid rain has sta-  | Feb         | 22          | 5        | nate joint project to make aluminur<br>food cans   |
| Additives Animal feed additives see Animal Feed   |             |          |          | bilized in the Northeast N Arsenic standards: stalled again  | Feb<br>Jan  |             | 34<br>13 | Diamond West route for desulfurizing petroleum coke yields coke for  |
| Antiknocks see Antiknock Compounds  Mattel making toy parts from resins filled                              |             |          | 00       | Automobiles: Englehard granted Japan-<br>ese patent for auto exhaust catal-                                      | Feb         |             | 47       | aluminum-refining anodes<br>Forecast bullish<br>MCI Rigid Disc, joint venture, will co   |
| with BaSo, that show up on X-rays  Northern Petrochemical's additive package: a new wrinkle in antifreeze   | Apr         | "        | 20       | ysts   | Feb         |             | 17       | vert aluminum smelter to max   |
| markets   | Feb         | 8        | 24       | Chevron U.S.A. receives public nui-<br>sance violation notice after ammonia                                      | Apr         | 20          | 00       | magnetic discs  American Assn. for the Advancement of Science — Meeting (105th): "Frontier of Chemical" removes immediately and the composition of |
| Adhesives Adhesives makers court the clubby   |             |          |          | and hydrogen sulfide emission from<br>Richmond, Calif. refinery R<br>Clean Air Act                               | Jan         | 18          | 18       | of Chemistry" symposium  American Assn. of Railroads — Invento ies: "Sam" computer tracks ship   |
| auto market Ashland acquiring Goodyear T&R's  | Mar         | 28       | 10       | PCM air pollution rule gets a 'no' vote N  | Fet         | 22          | 50       | ments  |
| structural urethane-adhesives bus-<br>iness   | Feb         | 8        | 9        | Reagan stops trying to ease clean air standards  |             | 29          | 40       | American Chemical Society Allelopathy symposium  |
| Beecham Group acquires Roberts Con-<br>solidated Industries N   | Mar         | 21       | 20       | Bill now includes acid-rain provi-   | Ма          | 21          | 84       | Democratic R&D election plank urged . St. Louis meeting highlights   |
| Dow introduces new adhesives polymers, trademarked PrimacorN Loctite: Can Loctite get back on track?        | Mar         | 21       | 9        | Toluene will not be regulated N Computers on the track of toxic fumes . DNA: open-air r-DNA experiments see      | Ma          | y 30<br>r 7 | 40<br>36 | Cancer risk assessment: report questions federal regulatory agencie  |
| (charts) Widger Chemical plans sealants and   | Jan         | 11,      | 28       | DNA Fiber plants: EPA sets final emission  |             |             |          | exposure/risk assumptions  |
| sion at Oklahoma City N   | Feb         | 15       | 9        | rules  | Ap          | 18          | 52       | American Environmental Safet, Counce<br>Drayton, William: EPA needs R&   |
| Adipic Acid — Monsanto's new catalytic process  | Apr         | 25       | 30       | plenty   | Fei         | 22          | 12       | money now to avoid waste later -<br>Other views  |
| Adsorbents — Sumitomo plant uses<br>"special adsorbent" to extract gallium from bauxite                     | Feb         | 22       | 32       | Formaldehyde see Formaldehyde<br>Gardinier's request to build new stack<br>near Tampa, Fla. complex: Florida     |             |             |          | Other views "SAVE EPA" project group stud "EPA's Research No Longer Can D the Job" (chart)   |
| Adsorption — Separation Research Program at the University of Texas: New                                    |             |          |          | county commission moves to deny rezoning request   | Fel         | 29          | 12       | American Gas Assn. — Landfill gas: Ta<br>ping the hidden treasure in landfill gas  |
| ways to bring about cost-effective separation (table)   | May         | 16       | 34       | Hazardous waste incineration: tracers for simple monitoring N Lead additives see <b>Gasoline</b>                 | Fe          | 0 1         | 30       | American Insurance Assn. — Confe<br>ence: OMB's Horowitz on victims<br>compensation  |
| Advertising ibuprofen's contested road over the   |             |          |          | Naico develops hydrocarbon emissions control for auto makers' spray-   |             |             |          | American Paper Institute   |
| counter: a challenge to FDA's say on<br>consumer advertising  | June        | 6        | 12       | painting shops   |             | r 21        | 9        | A boom year for a big chemical ma  |
| Medical ads: asking the media to help fight false medical ads N   | June        |          | 40       | nitrogen dioxide standards N<br>Nitrogen oxides: EPA leaves standards  |             | b 29        | 40       | For paper recovery comes quickl<br>Laun: Watching over a full-spectru  |
| NutraSweet advertising is misleading:<br>Arizona complaint against soft-drink                               | lac         | oe.      | 40       | for nitric acid plants alone N<br>Sulfur oxides from cat crackers: EPA   |             | r 18        | 52<br>80 | American Petroleum Institute — U.S. (  |
| marketers Paper and plastic vie for milk container (chart)  | Jan<br>Feb  |          | 13       | Air Pollution see also Environment Alachlor — Monsanto's Lasso herbicide   |             | n 25        | 80       | supplies: A warning (chart)  |
| P&G sues Chesebrough-Pond over TV   | , 00        |          | ,-,      | ingredient: EPA now re-reviewing the safety of alachlor  |             | ne 20       | 13       | dehyde suit against EPA: Formald<br>hyde's run for life on the 'fast trac<br>(table)   |

| U.S. auto makers' moves could cut  | lan        | 10   | 0        |
|--|------------|------|----------|
| chemical supply lines N Urethanes' double-digit surge  | Jan<br>Apr | 18   | 13       |
| Windshields: antilacerative coatings   |            |      |          |
| come a step closer   | May        | 23   | 25       |
| Award: Why PRC's Gregory won CIA's   |            |      |          |
| award  | Apr        | 25   | 47       |
| _  |            |      |          |
| В  |            |      |          |
| _  |            |      |          |
| Bacteria   |            |      |          |
| Grace signs agreement with Synergen  |            |      |          |
| to develop microorganisms that make flavors and fragrances N   | May        | 2    | 37       |
| Japan: Nitto Chemical Industry's acryl-<br>amide plant will use biocatalyst N                                  |            |      |          |
|  | Apr        | 11   | 30       |
| production   | May        | 16   | 44       |
| cals N   | Mar        | 28   | 33       |
| Oil-recovery formula: bugs in, product out   | Jan        | 25   | 58       |
| out Reuter's nucleopolyhedrosis virsus zaps gypsy moths (table) Bags — Multiwall bags for powdered chemicals   |            | -    | 30       |
| zaps gypsy moths (table)  Bags — Multiwall bags for powdered   | Apr        | 25   | 19       |
|  | May        | 30   | 34       |
| Banks — Export trading companies. Now banks are selling chemicals (table)                                      | June       | 27   | 92       |
| banks are selling chemicals (table).  Barges — Tenn-Tom waterway is 90% complete: project opens 16,000 miles   | 00110      |      | -        |
| of Southeast waterway to barge move-   |            |      |          |
| ment (map) Barium Carbonate — USITC finds dump-  | May        | 23   | 36       |
| ing from China N   | Feb        | 1    | 25       |
| Barium Chloride — USITC find dumping   | Feb        | 1    | 25       |
| ing from China N<br>Barium Chloride — USITC find dumping<br>from China N<br>Barium Sulfate — Mattel making toy | Len        | '    | 23       |
|  | Apr        | 11   | 20       |
| show up on X-rays  Bauxite — Sumitomo plant uses "special adsorbent" to extract gallium from hauxite           | Apr        |      | 20       |
| adsorbent" to extract gallium from bauxiteN  | Feb        | 22   | 32       |
| bauxite N Beker, Erol Y., president and COO of Beker Industries: The other Beker is now COO at Beker           | . 00       |      | 02       |
| Beker Industries: The other Beker is<br>now COO at Beker   | Feb        | 1    | 34       |
|  |            |      |          |
| Belgium<br>International forecast: A business pick-  |            |      |          |
| up for non-U.S. companies (charts &  |            |      |          |
| tables)  | Jan        | 25   | 64       |
| Jan 25-17, N   | Jan        | 25   | 57       |
| Benzene  |            |      |          |
| Emissions: EPA may drop rules for some benzene emissions N   | Mar        | 21   | 84       |
| EPA, OSHA move on benzene stand-   |            |      |          |
| ards N<br>EPA wants toxicity tests for chlorinated   | June       | 6    | 40       |
| benzenes N<br>Inventories trend downward N<br>Nigeria starts building linear alkyl ben-<br>zene plant N        | Jan        | 25   | 80       |
| Nigeria starts building linear alkyl ben-  | Feb        | 22   | 28       |
| zene plant N<br>Octane boosting: BTX vs oxygenates—  | Apr        | 11   | 24       |
| Dattie over lead substitutes (chart)   | Mar        | 28   | 27       |
| Prices N Feb 1-25, N Prices; stocks plummet N  | Mar        | 14   | 34<br>25 |
|  | May        | 23   |          |
| osha draft rule could be new start-  | Jan        | 11   | 35       |
| ing placeN   | June       | 6    | 40       |
| Beverages — Aspartame in carbonated<br>beverages: safety challenged in Ari-                                    |            |      |          |
|  | Jan        | 25   | 13       |
| Biological testing for toxics in water   |            |      |          |
| backed by EPA N  | Mar        | 21   | 84       |
| Biology  |            |      |          |
| Allelopathy: Plants that produce their   |            |      |          |
| own herbicide  | May        | 2    | 28       |
| neered compounds could store more  | Fab        | 0    | 10       |
| information on a silicon chip  | Feb        | 8    | 19       |
| Commodities from biomass: where  |            |      |          |
| we're headed   | Apr        | 4    | 36       |
| Plant-derived diesel fuel R  | Apr        | 25   | 22       |
| Biotechnology  |            |      |          |
| AC Biotechnics donating laboratory<br>fermentation systems to six colleges                                     |            |      |          |
| and universities N   | June       | e 6  | 25       |
| American Assn. for the Advancement<br>of Science: "Frontiers of Chemistry"                                     |            |      |          |
| symposium  | Jun        | e 6  | 34       |
| Battelle forms new Cellular and Molec-<br>ular Biotechnology Section N<br>Biotech firms scramble for new ways  | May        | 30   | 34       |
| Biotech firms scramble for new ways to raise cash  |            | 23   | 9        |
| Calgene: Adding market savvy to a bio-   |            |      |          |
| tech startun   | Jan        | 11   | 13       |
| Center for Advanced Research in Bio-<br>technology, CARB: new biotech cen-<br>ter allies diverse groups        | -          |      |          |
| Cetus and Grace joint venture for bio-   | Feb        | 22   | 16       |
| Cetus and Grace joint venture for bio-<br>engineered farm products: 'Possibly<br>the largest' bioventure       | 8          | . 20 | 45       |
| the largest bioventure   | Jun        | e 20 | 15       |

Mar 28

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tional
Lead additives see Gasoline
Montedison's U.S. sales rep, Cambo
Inc., will pitch elastomers to Detroit
Nalco's revved-up drive to serve the
auto makers.

Resins' fortunes ride with autos.

Apr 18 Feb 15

Atmospheric gas output climbs
Atmospheric gases: Sales are
margins are thin for air gases
Gas production in 1983

Industrial gases heat up in Europe

28 25

Apr 4

Jan 18

34

16

| China: Joint bioventures in China<br>Collaborative Research and American   | Jan        | 11   | 16       | up for non-U.S. companies (charts & tables)  | Jan 2       | 5        | 64       | Shell Canada complex at Scotford,<br>Alta.: styrene monomer plant nears  |            |            |          |
|--|------------|------|----------|--|-------------|----------|----------|--|------------|------------|----------|
| Hospital Supply to form joint venture<br>to make and market laboratory tests   |            |      |          | Potash: World potash is moving again<br>(chart)  | Mar 1       | 4        | 37       | completion   | Jan        | 4          | 16       |
| that detect human inherited dis-   | Jan        | 18   | 38       | British Agrochemicals Assn. — Britain's<br>popular pesticide rule: industry counts                   |             |          |          | plant in Alberta   | May        | 9          | 25       |
| eases N<br>Congress pushes for biotechnology<br>regulation N   | Mar        | -    | 48       | on stricter safety regulations to curb imports (chart)   | May 2       | 13       | 16       | plant to produce 'safe' asbestos<br>fiber N  | Feb        | 15         | 33       |
| DNA, r-DNA regulation see DNA<br>Europe's research-fund crisis   | June       |      | 20       | Bromine  | may 2       |          | 10       | Canada's bid to regain U.S. asbestos<br>markets  |            | 22         | 14       |
| Executives: Steven James Lee, new president of Repligen; John E. Don-  | Julie      | 20   | 20       | Great Lakes Chemical. An aggressive  | Mar 5       | 14       | 7.4      | Letter Synfuels: A cautious phoenix  | Mar        | 14         | 5        |
| aids, president and chief executive  | Mari       | 40   |          | growth plan pays off (charts)  | Mar 2       |          | 74       | Uranium production up  | Apr '      | 22<br>11   | 13       |
| officer of Collaborative Research . N<br>Forest biotechnolgoy symposium: Trees<br>may be cultivated for their chemi- | May        | 16   | 11       | policy abroad pays off for ICL   | May         | 8        | 21       | Urea plant in Quebec: feasibility study . N  | Feb        | 1          | 20       |
| calsbut it also may prove costly. N  | June       | 20   | 26       | Prices N<br>Swimming-pool chemicals markets  | June 2      |          | 16       | Arsenic and cancer link will be studied N  | Apr        | 4          | 34       |
| Genetech's triple play: tests of gamma<br>interferon, a marketing deal, and a  |            |      |          | (chart & table)  | Mar         | 7        | 10       | Asbestos see Asbestos<br>Benzene see Benzene   |            |            |          |
| joint venture<br>Industry worries about biotechnology  | Jan        | 4    | 13       | bromine (chart)<br>Buffalo Gourd — Chemicals from 'wild'   | Feb 1       | 15       | 10       | Bristol-Myers gives research grants to<br>two cancer centers   | May        | 2          | 37       |
| rules  | Apr<br>Feb | 18   | 52<br>30 | plants   | May 1       | 16       | 30       | Cancer risk assessment: ACSH report<br>questions federal regulatory agen-  | ,          |            |          |
| Israel's thriving biotech industry Japan's JGC Corp. seeks entree into   | June       | 6    | 28       | Butadiene<br>EPA and OSHA weigh potential risks . N  | Jan         | 4        | 44       | cies' exposure/risk assumptions Colorado ruling involving Dow's Rocky  | May        | 9          | 26       |
| biotech plant building: will buy 50% share of Fuji Life Science N  | Jan        | 26   | 57       | Prices N Jan 11-25, N<br>Production N  | Mar 2       |          | 65<br>25 | Flats Nuclear Weapons Plant case:<br>radiation ruling precedent R  | May        | 9          | 22       |
| Making new ventures go: A bankroll<br>and a hi-tech idea aren't enough   | Jan        | 20   | 31       | Butane — Canadian feedstocks: switch   | 1.60        | 0        | 20       | Formaldehyde's run for life on the 'fast   |            |            | 10       |
| (chart)  | Apr        | 11   | 44       | to the use of propane and butane recommended   | Feb 1       | 15       | 15       | track' (table) Genentech developing a selective anti- cancer agent called lymphotoxin . N                            | May        |            |          |
| Military' gene project to combat dys-<br>entry stirs furor   | Feb        | 15   | 12       | Butanol — Deutsch Texaco route to sec-<br>ondary butanol   | Jan 1       | 11       | 32       | Hahnemann Univ. will expand testing  | June       | 13         | 34       |
| Molecular-computer research: bioengi-<br>neered compounds could store more   |            |      |          | Butyl Alcohol see Butanol  |             |          |          | of drug, Ampligen, in study of inter-<br>feron's role in cancer therapy N  | May        | 23         | 35       |
| ornation on a silicon chip   | Feb        | 8    | 19       | C  |             |          |          | Insecticides, pesticides see insecti-<br>cides   |            |            |          |
| <ul> <li>Viewpoint</li> <li>The tenuous U.S. lead in biotechnol-</li> </ul>  | Feb        | 1    | 3        | •  |             |          |          | Italy: trial against Montedison execu-<br>tives, involving cancer deaths at  |            |            |          |
| ogy (chart)  | Feb        | 1    | 21       | Cadmium — Sweden reconsiders ban on  |             |          |          | Acna plant, is rescheduled N<br>Two ex-directors of Acna receive   | Feb        | 8          | 17       |
| - Viewpoint  | Feb        | 29   | 3        | cadmium  | Apr 1       | 11       | 24       | suspended sentences N  | Арг        | 25         | 25       |
| Regulation: NIH seeking comments on proposals  | May        | 2    | 44       | eral agencies unite  | May 3       | 30       | 34       | Monoclonals differentiate between can-<br>cers N   | May        | 16         | 44       |
| Repligen, the 'quiet' biotech company:<br>Lee targets "mundane products"   | May        | 2    | 13       | Hoechst backs away from fertilizers . N  | Apr 2       | 25       | 25       | NIOSH, OSHA studies see <b>Labor</b><br>North Carolina study finds no cancer   |            |            |          |
| Small firms form a trade group, the<br>Association of Biotechnology Com-   |            |      |          | Calcium Bromide — Ethyl opens sodium<br>and calcium bromide powders plant in                         |             |          |          | epidemic triggered by picloram, in-<br>gredient in Dow's Tordon herbi-   |            |            |          |
| panies (table) USDA gets more money for agricultural   | Jan        | 25   | 13       | Magnolia, Ark  | Mar 2       | 28       | 19       | CideR<br>Nylon and caprolactam: Weighing the   | June       | 27         | 15       |
| biotech research   | June       | 6    | 40       | Biotechnology and Massachusetts<br>General Hospital sign research and                                |             |          |          | risks of nylon-wrapped food  | May        | 23         | 13       |
| ber fundsN   | June       | e 13 | 40       | licensing agreements N Calcium Hypochlorites — Swimming-pool   | May         | 23       | 35       | the IL-2 race?   | Apr        | 18         | 16       |
| University of Maryland to set up bio-<br>technology center at Shady Grove  |            |      |          | chemicals: Chemical makers play hard-  | Mor         | 7        | 10       | Testing<br>Labsystems' Mutascreen system: a  |            |            |          |
| Life Sciences Center R<br>University of Wisconsin-Madison plans  |            | 15   | 16       | nosed polo in the pool (chart & table) Calcium Magnesium Acetate — Hot pros-                         |             |          |          | computer assist for the Ames   | Mar        | 21         | 14       |
| biotechnology center N<br>Why Wall Street wants more biotech-  |            | e 20 | 28       | pects for a road deicer Calcium Stearate — Prices N  | Mar<br>Mar  | 7        | 14<br>24 | Toxic chemicals testing see <b>Testing</b> — Toxic chemicals   |            |            |          |
| nology data  | Mar        |      | 22       | Canada   |             |          |          | Toxics Substances Control Act see Law Cans see Containers  |            |            |          |
| treated wood unpalatable N<br>Bleaches and Bleaching — U.S. Army   | Feb        | 22   | 32       | Alcan's Laterriere aluminum smelter at<br>Chicoutimi, Que. plans move for-                           |             |          |          | Capacitors — Westinghouse introduces<br>new dry electric power capacitor N   | Feb        | 1          | 30       |
| manufacturer to build plant for "super-<br>tropical bleach," a decontaminant for                                     |            |      |          | ward   | Apr         | 18       | 28       | Caprolectem  |            |            |          |
| mustard gas N  | Mar        | 14   | 11       | aluminum plant because of cheaper electrical rates   | Feb         | 15       | 16       | Prices N Apr 4-26 N<br>Weighing the risks of nylon-wrapped   | Apr        | 25         | 57       |
| Blood  |            |      |          | China bids for Lanigan potash mine . N<br>Connaught Laboratories develops ge-                        |             | 18       | 20       | food   | May        | 23         | 13       |
| Blood-clotting protein: A wide-open field in the race for factor VIII  | Jan        | 11   | 22       | netically engineered human insulin N<br>Esso Resources Canada plans ethane                           | Jan         | 4        | 29       | Carbon Carbon-fiber facility planned by Enka N   | Feb        | 20         | 16       |
| Leader in the factor VIII race: Genen-<br>tech uses r-DNA to make a blood-   |            |      |          | extraction plant as part of enhanced   | May         | 30       | 18       | Carbon fibers: France reshuffles projects  | Apr        |            | 28       |
| clotting protein Pharmacia and Imre joint venture to   | May        | 9    | 17       | oil recovery program in Alberta N<br>GM segment for building small cars will<br>be based in Canada N |             |          | 9        | Hysol Grafil's carbon fiber plant at<br>Sacramento, Calif. in the works N  | June       |            | 50       |
| research technique that would purify   |            |      |          | Husky Oil's synthetic oil project moves  | Jan         |          |          | Carbon, Activated — Du Pont's Deep-  | June       | 20         | 30       |
| and treat blood after it is removed from the body  | Feb        | 1    | 30       | forward: partners sought N<br>Hydrogen peroxide plant planned by                                     | June        |          | 50       | water PACT plant envisioned as the<br>beginning of a nationwide network of   | hune       | 10         | 44       |
| Boilers  |            |      |          | FMC N<br>Hydrogen project uncertain N  |             | 11<br>16 | 24<br>29 | waste treatment facilities<br>Carbon Black — China awards plant con-   | June       |            | 11       |
| Fluidized-bed boilers: rekindling of in-<br>terest (diagram)   | June       | 20   | 44       | International forecast: A business pick-<br>up for non-U.S. companies (charts                        |             |          |          | tract to Toyo Engineering N  | May        | 2          | 20       |
| Goodrich and Illinois to build boiler that burns high-S coal   | Jan        | 11   | 16       | & tables)  | Jan         | 25       | 64       | BOC Group's Airco plugging carbon  |            |            |          |
| Letter     Bolivia — Chemical exports: At stake in   | Feb        | 15   | 5        | set  | Jan         | 4        | 16<br>28 | dioxide as a substitute for EDB N<br>CO <sub>2</sub> lasers: OTA is checking the safety                              | Feb        | 22         | 9        |
| the international banking rescue (charts)  | luni       | e 20 | 53       | Nova shines, but less brightly   | June<br>Feb | 27       | 88<br>16 | of CO <sub>2</sub> lasers in surgery N<br>Cortez CO <sub>2</sub> pipeline starts up N                                | Jan<br>Jan | 11         | 42<br>20 |
| Bonneville Power Administration—Rates:   | Juli       | 0 20 | 33       | Ontario plans destruction of polychlor-  | 1.00        | 23       | 10       | EDB substitutes: Challenges for EDB  |            | 4          | 14       |
| High Court favors industrial power users N Botswana — African Selection Trust  | Jun        | e 13 | 40       | inated biphenyls with mobile equip-<br>mentN<br>Paper mill workers in B.C. strike                    | June        | 27       | 90       | substitutes Liquid Carbonic to be acquired by CBI  | Apr        |            | 14       |
| working on leasibility studies for social  |            |      |          | Parliament's subcommittee on acid  | Mar         | 21       | 10       | Carbon Monoxide — Syconex develops   |            | e 20       | 13       |
| ash: Who'll win the soda ash prize in<br>Africa? (map)   | Apr        | 11   | 18       | rain advocating phasing out of TEL<br>by 1995 N  | June        | 13       | 9        | new CO monitor N<br>Carbon Tetrachloride — Prices N  |            | 25<br>e 20 | 30<br>60 |
| Bottles  |            |      |          | Petrochemical producers hope for new<br>pricing plan for crude oil and natural                       |             |          |          | Case Western Reserve University — Poly-<br>mer Institute: major cornerstone of<br>Thomas Alva Edison Program, Ohio's |            |            |          |
| Brockway to purchase Ethyl's IMCO<br>Container business N  | Mar        | 7    | 9        | gas  | May         | 9        | 25       | Thomas Alva Edison Program, Ohio's<br>quest for high-tech ventures (table)   | May        | 23         | 14       |
| Plastic bottles: For plastics, new action<br>in food packaging (chart)   |            | 18   | 25       | chemicals firms N<br>Petrochemicals: Rx for Canadian feed-   | May         | 9        | 25       | ,  |            |            |          |
| Plastic and paper vie for the milk con-<br>tainer (chart)  | Feb        |      | 14       | stocks Potash production soars   | Feb         | 15       | 15<br>26 | Catalysts Alumina chemicals: Looking for an up-  |            |            |          |
| Letter  Plastics' push for chemical packaging.   | Mai        | 14   | 5        | Potash shipments: demand from U.S.   |             |          | 28       | turn Amax will offer catalyst services N   | May        | 23         | 20<br>46 |
| PET: Montefibre to supply PET polymer  | rwall      | - 4  | 50       | fertilizer market  | Jan         |          |          | "Asymmetric" catalysts: AAAS sym-  | June       |            | 34       |
| and preforms to bottle producer,<br>Cobarr   | Jun        | ө 27 | 90       | (chart)  | Mar         |          | 36       | Englehard granted Japanese patent for  | Feb        |            | 17       |
| Brazil   |            |      |          | dropower<br>Quenord upping capacity of sodium  | May         |          | 22       | Ethylene glycol: A cheaper route to  |            |            | 3        |
| Chemical exports: At stake in the inter-<br>national banking rescue (charts)   | Jun        | e 20 | 53       | chlorate plant at Magog, Que N<br>Saskatoon Chemical in startup phase                                | Feb         | 15       | 18       | Ethylene glycol: A cheaper route to glycol? — Viewpoint Ethylene glycol: Massive restructur-                         | Mar        |            |          |
| Feedstock and fuel to cost more in Rio   |            | , 2  | 20       | for calcium hypochlorite plant in<br>Saskatoon, Sask   | Mar         | 7        | 11       | Japan: Nitto Chemical Industry's acryl-  | Mar        |            | 32       |
| International forecast: A business pick-   |            |      |          | — Correction   | May         | 2        | 5        | mide plant will use biocatalyst N  | Apr        | 11         | 30       |

| Destaria that actalism anadomida   |       |       |    | What we are where we're handed  |      |             |        | Clay  |         |       |      |
|--|-------|-------|----|---|------|-------------|--------|---|---------|-------|------|
| Bacteria that catalyze acrylamide production                                   | May   | 16    | 44 | What we are, where we're headed —<br>Viewpoint                                  | Mar  | 21          | 3      | First U.S. clay-based metallic chlorides                                      |         |       |      |
| Lummus Crest mild hydrocracking  |       |       |    |   |      | -           |        | plant   | Feb 1   | 5     | 33   |
| process yields more middle distil-<br>ate. N                                   | Apr   | 11    | 30 | "Chemical Week" Financial Reports Chemical industry leaders, 4th qtr. '83       |      |             |        | phate mine will test new clay-settling  |         |       |      |
| Monsanto's new catalytic process for   | Apr   | 11    | 30 | (tables)  | Feb  | 15          | 30     | technology called electroendos-   |         |       |      |
| adipic acid N  | Apr   | 25    | 30 | Process industries, 4th qtr. and 1983   |      | -           |        | mosis N<br>United Desiccants Belen, N.M. plant to                             | Jan 2   | 5     | 19   |
| Polymerization catalyst: University of<br>Wisconsin-Madison's West at ACS      |       |       |    | (charts & tables)   | Mar  | 7           | 26     | make 15 grades of desiccant clay  |         |       |      |
| meeting N  | Apr   | 18    | 37 | nual (charts & tables)  | Apr  | 25          | 58     | products  | Feb     | 8     | 16   |
| Polypropylene polymerization catalyst  |       |       |    | Chemical industry leaders, 1st qtr. '84   |      | 00          | -00    | from clay-bearing ores N  | June 1  | 3     | 34   |
| Lynx 900, from Catalyst Resources,<br>will make older plants competitive. N    | Feb   | 15    | 33 | (tables) Process industries, 1st qtr. '84 (charts                               | May  | 23          | 28     | Cleaners — Chemed: An independent   | Julie 1 | 3     | 34   |
| Polysilane catalysts   |       | 30    | 22 | & tables)   | May  | 30          | 28     |   | June    | 6     | 23   |
| Ultrasonic processing: How ultrasound  |       | 10    | 00 | Chewing Gurn — Merrell Dow's Nicor-   |      |             |        | Coal  |         |       |      |
| 'catalyzes' catalysis  | Jan   | 18    | 29 | ette: prescription gum helps smokers<br>quit                                    | Mar  | 14          | 22     | Anthracite: a new look at anthracite . N                                      | Jan     | 4     | 29   |
| quire Katalistics' fluid cracking cata-  |       |       |    |   |      |             |        | Burning coal to extract oil: new proc-  |         |       |      |
| tysts business   | Mar   | 21    | 13 | Chile<br>Chemical exports: At stake in the in-                                  |      |             |        | ess, Total Resource Energy Extrac-<br>tion (TREE)                             | Jan     | 4     | 15   |
| United Catalysts offers new catalyst for<br>shift conversion                   | Apr   | 11    | 30 | ternational banking rescue (charts)   | June | 20          | 53     | Coal-cleaning schemes to be probed by   |         |       |      |
| Grant Gotte Growth   | · do. |       | 00 | Methanol plant advances N   | May  | 23          | 18     | Energy Dept N   | Jan 2   | 25    | 80   |
| Caustic Soda   |       |       |    | China   |      |             |        | Conversion: Brewster Phosphate will<br>convert phosphate rock dryers to       |         |       |      |
| Chlor-alkali: Squeezing earnings from a  | Fab   | 1     | 00 | Atlantic Richfield seeks contract for   |      |             |        | coal-oil mixtures N   | Маг     | 7     | 30   |
| low-growth business (charts & table) .  — Letter                               | Feb   | 11    | 26 | ammonia plant N   | May  | 2           | 20     | Desulfurization see Desulfurization   |         |       |      |
| Membrane patent agreement signed by  |       |       |    | Canada's Lanigan potash mine: China<br>bids for potash mine                     | Jan  | 18          | 20     | Eastman's acetic anhydride from coal<br>plant at Kingsport, Tenn. with Texaco |         |       |      |
| Du Pont and Asahi  | May   | 9     | 33 | bids for potash mine  | Jan  | 10          | 20     | gasifiers and some processing wrin-   |         |       |      |
| Paper industry recovery increases<br>sales                                     | Mar   | 21    | 10 | Engineering N   | May  | 2           | 20     | kles (diagram)  |         | 18    | 34   |
| Prices N Mar 21-65, N Apr 4-26, N  | June  |       | 35 | Electron beam system sold by Energy   |      |             |        | Letter     Fluidized-bed boilers: A rekindling of                             | June    | 21    | 5    |
| Caustic Soda see also Chlor-Alkall   |       |       |    | Sciences to Shanghai Electrical Machinery N                                     | May  | 9           | 33     | interest (diagram)  | June    | 20    | 44   |
| CEFIC — Europe faces more petrochemi-<br>cal shutdowns                         | June  | 20    | 50 | Gum rosin exports   | Mar  | 7           | 20     | Fluidized-bed combustion know-how:  |         |       |      |
| Cellulose — Commodities from biomass:  | Julio | 20    | 30 | International forecast: A business pick-  |      |             |        | joint company, KRW Energy Sys-<br>tems  | Apr     | 25    | 30   |
| where we're headed   | Apr   | 4     | 36 | up for non-U.S. companies (charts & tables)                                     | Jan  | 25          | 64     | Gasification see Gasification   | MPI     | 23    | 30   |
| Cement — Grouts help speed structural  | ****  | 7     | 20 | Joint bioventures   | Jan  |             | 16     | Osce Fuel, joint venture, to research   |         |       |      |
| repairs  | Mar   | 7     | 30 | Montedison negotiating for joint ven-   |      |             |        | and develop coal-water fuels R Synthetic fuels see Fuels                      | Feb     | 1     | 17   |
| Orange/Vietnam Experience study  |       |       |    | tures N Petrochemical projects get priority . N                                 |      | 28          |        | Coalition for International Trade Equity                                      |         |       |      |
| (table)  | Mar   | 28    | 14 | Potash: World potash is moving again  | ivia | 10          | 23     | Chemical trade squabbles: The industry  |         |       |      |
| Ceramics   |       |       |    | (chart)   | Mar  | 14          | 36     | is divided over protectionism (charts)  | Mar     | 28    | 34   |
| Alumina chemicals: Looking for an up-  |       |       |    | Sumitomo says China may become the<br>single largest client for LDPE and        |      |             |        | Coatings  |         |       |      |
| turn   | May   | 23    | 20 | polypropylene from Singapore unit N   | Mar  | 14          | 28     | Akzo to acquire Lanchem which will  |         |       |      |
| Battelle developing stress-tolerant cer-                                       | Mar   | 14    | 46 | USITC finds dumping of barium chlor-  |      |             |        | operate as a subsidiary of Akzo Coat-   | Ech     | 4     | 9    |
| amics N<br>Chemical vapor deposition: AAAS sym-                                | TWICE | 1-9   | 40 | ide and barium carbonate from China N   | Feb  | 1           | 25     | ings America N — Correction   | Feb     | 25    | 5    |
| posium   | June  | 9 6   | 34 | Chinese Tallow Tree - Chemicals from  | 1 02 |             | 20     | Aquanautics protein-based chemical  |         |       |      |
| Chern Mart '84 — CSMA's first trade<br>show highlights new aerosols            | May   | 16    | 21 | 'wild' plants   | Ma   | y 16        | 30     | coating for bass lures  | June    | 13    | 17   |
| Chemical Industry Assn. — 1984 Winthrop-                                       | May   | 10    | 21 | Chlor-Alkali  |      |             |        | ers, sharp marketing and sharp  |         |       |      |
| Chemical Industry Assn. — 1984 Winthrop-<br>Sears Award: Why PRC's Gregory won |       |       |    | BP Chemicals sells Sandbach Div.,   |      |             |        | pencils (charts)  | Apr     | 4     | 10   |
| ClA's award<br>Chemical Industry Council of New Jersey                         | Apr   | 25    | 47 | chlor-alkali operation, to Hays   |      | - 04        |        | Asbestos containment: A controversial<br>alternative                          | June    | 20    | 33   |
| Groundwater protection program   | Jan   | 11    | 14 | Group N<br>Chlor-alkali: Squeezing earnings from a                              | ма   | r 21        | 20     | Automobile windshields: antilacerative  | June    | 20    | 33   |
|  |       |       |    | low-growth business (charts & table)  | Feb  | 1           | 26     | coatings come a step closer N   | May     | 23    | 25   |
| Chemical Industry Institute of Toxicol-  |       |       |    | — Letter  | Apr  |             |        | Battelle study to improve coatings for U.S. Coast Guard's buoys N             | Mar     | 14    | 46   |
| CIIT: Happy 10th birthday — and many   |       |       |    | Derivatives prices N<br>Dow acquires Allied membrane patents                    | Ma   | r 14        | 4 34   | GE commercializing technology for   | Mai     | 14    | 40   |
|  | Jun   | e 27  | 3  | for chlor-alkali productionN  | Jar  | 18          | 8 38   | silicone polyimide dielectric coating   |         | _     |      |
| A decade of success for CIIT   |       | e 27  | 83 | Dow takes write-off on Midland, Mich.   | -    | - 0         |        |   | Mar     | 7     | 16   |
| CIIT toxicity testing: The pace is deliberate                                  | lun   | ne 27 | 85 | plant   | re   | b 22        | 2 9    | GE wafer-coating, key to new chip technology                                  | June    | 6     | 17   |
| Industrial Health Foundation sympos-   | our   | 10 21 | 00 | La. chlor-alkali unit to membrane   |      |             |        | Ink Technology to grant marketing<br>rights to UV-coatings to S.C. John-      |         |       |      |
| ium: epidemiology studies and ani-   |       |       |    | cells   |      | ne i        |        | son   | Mar     | 21    | 19   |
| mal tests are the best means of<br>assessing risks to people                   | Ma    | y 23  | 14 | Prices N Mar 21-65, N<br>Sweden: Billerud completes chlor-alkali                | Ju   | 10          | 6 35   | Markets continue strong N   | Jan     | 4     | 20   |
| Neal comments on ACSH report chal-   | IVICA | , 20  | 14 | conversion to membrane cell out-  |      |             |        | Mobil Chemical to sell U.S. and Cana-   |         |       |      |
| lenging cancer risk assessment   | Ma    | y 9   | 26 | put   | Fe   |             | 2 20   | dian industrial-coatings businesses to Valspar                                | May     | 23    | 4    |
| A research-mairning budget for EPA?<br>(chart)                                 | Apr   | r 4   | 27 | Uptrend continues N<br>Chlor-Alkali see also Caustic Soda                       | Ja   | n 2         | 5 24   | Valspar's bid for greater growth  | ividy   | 20    |      |
|  | right | . 4   |    | Chlorine  |      |             |        | (chart)   | May     | 30    | 12   |
| Chemical Manufacturers Assn.   |       |       |    | Chlorides — First U.S. clay-based metal-<br>lic chlorides plant                 | E    | b 1         | 5 33   | PPG introduces fire-protective coat-<br>ing N                                 | May     | 9     | 33   |
| Annual meeting (112th): CMA consensus — 'Enjoy 1984'                           | Jur   | ne 13 | 16 | nc chondes plant  | 10   | 0 1         | 3 33   | Polyester powder resin prices N   | Apr     | 25    | 27   |
| Conservation Foundation's "State of  | -     |       | 10 | Chlorine  |      |             |        | Pratt & Lambert buys line of powder   |         |       |      |
| the Environment": High marks for a<br>cleanup report                           | is ea | ne 20 | 17 | Chlor-alkali: Squeezing earnings from a<br>low-growth business (charts & table) | Fe   | b           | 1 26   | coatings from Cook Paint & Var-<br>nish                                       | Feb     | 8     | 9    |
| Contract to University of Pittsburgh to  | Jui   | 10 20 | 17 | — Letter  | A    |             |        | Shipments rise and value soars N  | Jan     |       | 24   |
| study the link between arsenic and   |       |       |    | Membrane patent agreement signed by   | /    |             |        | UC starts up Bound Brook, N.J. plant  |         |       |      |
| Fernandez, Louis at annual meeting:  | Apr   | r 4   | 34 | Du Pont and Asahi   | i M  | ay          | 9 33   | for thickeners for architectural coat-<br>ings                                | Feb     | 29    | 12   |
| Good public works need a strong  |       |       |    | diaphragm cells with ion exchange   | 3    |             |        | Coextrusion - Dow and Welex settle  |         |       |      |
| public voice — Other views   | Jun   | ne 13 | 3  | membranes   | i Ar | or 1        | 8 37   | feedblock coextrusion patent suitR  | May     | y 2   | 19   |
| Glycol ethers: CMA responds to EPA's<br>proposal to regulate glycol ethers . N | Apr   | r 4   | 40 | Prices N Feb 29-23, N Mar 7-24, N Ma<br>21-65, N May 30-24, N June 6-35, N      | d .h | ne 2        | 27 16  | Coke  |         |       |      |
| GSP reforms proposedN  |       | b 15  | 48 | Swimming-pool chemicals: Chemica  | ıl   |             |        | Desulfurizing petroleum coke N  | Mai     | r 21  | 78   |
| Ocean shippers get antitrust immunity  | Ma    | ır 14 | 21 | makers play hard-nosed polo in the  | 9    |             | 7 40   | Desulfurizing petroleum coke: Dia-<br>mond West's route yields coke for       |         |       |      |
| Patent bill supported by industry N<br>Superfund bill see Waste Disposal       | Ap    | r 11  | 58 | pool (chart & table)  — Letter  | . A  | ar          | 7 10 5 | aluminum-refining anodes  | Apr     | 4     | 22   |
| Chemical Marketing Assn. — The loom-   |       |       |    | U.S. output holds gains   | N F  | ab 1        | 15 25  | FMC plans formcoke capacity expan-  | -       | - 00  |      |
| ing LPG glut. John M. Winton (charts,  |       |       | 00 | Uptrend continues Chlorine see also Chlor-Alkali                                | V Ja | an 2        | 25 24  | sion at Kemmerer, Wyo   | rec     | 29    | 12   |
| table, map)  | Ma    | ay 2  | 32 | Chlorofluorocarbons see Fluorocarbon  |      |             |        | but tight money   | Ma      | y 23  | 17   |
| Chemical Specialties Manufacturers   |       |       |    | Choline Chloride — Imports: Syntex ant  | j-   |             |        | Colors & Colorants — PPG Industries'  |         |       |      |
| Assn.  |       |       |    | dumping petitions claim foreign pro<br>ducers trying to drive U.S. competitor   | )-   |             |        | plastic color concentrates business to<br>be sold to Harwick Chemical N       | Jar     | 18    | 9    |
| Aerosol product survey; Chem Mart<br>'84, CSMA's first trade show              | Ms    | ay 16 | 21 | out of business (chart)   |      | an '        | 18 14  | Combustion — Fluidized-bed combustion:  |         |       |      |
| Conservation Foundation's "State of  |       | ,     |    |   |      |             |        | A rekindling of interest in fluidized bed                                     | la ca   | 00.00 | ) 44 |
| the Environment": High marks for a   | 1     | 00 00 | 47 | Chromatography Distributed system of gas chromate                               |      |             |        | boilers (diagram)  Commercial Development Assn. — UC                          | Jur     | 10 20 | 44   |
| cleanup report   | Ju    | ne 20 | 17 | Distributed system of gas chromate<br>graphy                                    | N J  | une         | 20 26  | plans wider vistas for petrochemical  |         |       |      |
| Chemical Warfare   |       |       |    | Field-flow fractionation, a form of   | of   |             |        | know-how N  | Ma      | ir 14 | 1 11 |
| Exports to Iran and Iraq: new rules on   |       |       |    | chromatography: AAAS symposium  | J. J | une         | 6 34   | Communications  |         |       |      |
| exports to counter chemical war-<br>fare                                       |       | or 11 | 58 | Cigarettes — Merrell Dow's Nicorette<br>chewing gum, helps smokers quit         |      | /ar         | 14 22  |   |         |       |      |
| 'Military' gene project to combat dys-   |       |       |    | City of Hope National Medical Center -  | _    |             |        | information systems (charts)  | Ma      | ly 23 | 3 26 |
| entery stirs furor   | Fe    | ab 15 | 12 | Monoclonals differentiate between car<br>cers                                   |      | Aay         | 16 44  | Investor relations. Courting with more finese (tables)                        | Fe      | b 1   | 5 34 |
| "Chemical Week"  |       |       |    | City University of New York - Advance   | d-   | nay         | 10 44  | Investor relations: Telling it to Wall  | 1       |       |      |
| McCurdy, Patrick P.: Welcome back,<br>Pat — Publisher's page                   |       |       |    | flash hydropyrolysis: testing out a ne  | W    |             |        | Street — Viewpoint Pacific Chemical Products files dam-                       |         | b 1   | 5 3  |
| Pat Publisher's page   | M     | ar 7  | 5  | gasification concept  | ri h | <i>l</i> ar | 7 30   | racine Onemical Floudets mes dam-   |         |       |      |

| age suit against the installers and<br>providers of new telephone sys-<br>tem     | June 1   | 3     | 17   | to the conventional tin can R<br>Continental Packaging and Alcoa term-<br>inate joint project to make aluminum | Apr     |       | 23    | President's Private Sector Survey on<br>Cost Control: Going after \$142 bil-<br>lion — Viewpoint              | Jan 2  | 5          | 3       |
|---|----------|-------|------|--|---------|-------|-------|---|--------|------------|---------|
| Suit the action to the word — and vice<br>versa — Viewpoint                       | June 2   | 20    | 3    | food cans  | Apr     | 11    | 23    | President's Private Sector Survey on<br>Cost Control: Strong medicine for                                     |        |            |         |
| Compressors — Sizing compressors from   | -        |       |      | tion in food packaging (chart)   | Jan     | 18    | 25    | curbing federal costs   | Jan 2  | 5          | 14      |
| a data base: Atlas Copco pilot program<br>gives customer access to the supplier's |          |       |      | Glass container technologies from France N   | Mar     | 28    | 33    | Risk assessors: How processors as-<br>sess plant risk (diagram)   | Feb 2  | 2          | 29      |
| mainframe   | May      | 2     | 25   | Paper and plastic vie for the milk con-<br>tainer (chart)  | Feb     | 1     | 14    | Separation Research Program at the<br>University of Texas: New ways to  |        |            |         |
| Computers   |          |       |      | - Letter   | Mar     | 14    | 5     | bring about cost-effective separation   |        |            |         |
| Anaconda Advanced Technology adapts<br>SCRI CRISP software to DE's micro-         |          |       |      | Plastics' push for chemical packaging .  | Mar     | 14    | 50    | (table)   | May 1  | 6          | 34      |
| computers N   | June 2   | 20    | 26   | Controls   |         |       |       | facturing costs (charts) Council of Better Business Bureaus —   | June   | 6          | 20      |
| CAD: software package to manage<br>design data                                    | June     | 6     | 25   | Anaconda Advanced Technology adapts<br>CRISP software to Digital Equip-  |         |       |       | Medical ads: asking the media to help   |        |            |         |
| Conductive housings: Filled-resin ma-<br>terials may produce the lowest-cost      |          |       |      | ment's microcomputers N<br>Honeywell low-cost controllers that   | June    | 20    | 26    | fight false medical ads   | June   | 6          | 40      |
| FMI shields   | Feb      | 1     | 16   | take care of furnaces N  | Jan     | 25    | 19    | goods: legislation aims at curbing prod-  |        | _          |         |
| GE Plastics data bank system on engi-<br>neering plastics, ERIS R                 | May :    | 30    | 17   | Process control: Where hardware and software clash   | Jan     | 25    | 20    | ucts with bogus trademarks Creosote — Wood preservatives: EPA   | May    | 2          | 16      |
| Information systems: Decentralizing in-   |          |       |      | Software-hardware agreement between  |         |       | 34    | action expected soon N<br>Cross-linking Agents — Better silicone  | June 2 | 7 1        | 102     |
| formation systems (charts)  |          | 23    | 26   | Honeywell and Setpoint N<br>Westvaco will offer system to control  | Apr     | 4     | 34    | cross-linkers from Allied   | May    | 2          | 26      |
| ing down inventories (charts)   | Feb      | 8     | 28   | the harmful effect of corrosive gases<br>on electronic control devices N                                       | Mar     | 14    | 46    | Cyclohexane — Prices N  | Feb    | 1          | 25      |
| empty — Viewpoint   | Feb      | 8     | 3    | Cooperatives — Farm cooperatives: Farm-  | ividi   | 14    | 40    | Cyclohexanone   |        |            |         |
| Japan starts work on computerizing patent searches                                | Feb      | 15    | 18   | land industries and the Missouri Farmers Assn. considering a merger as a                                       |         |       |       | EPA lets industry do tests on a nylon precursor   | Feb    | 8          | 40      |
| Labsystems' Mutascreen system: a  | Mar      | 24    |      | means of restoring their financial sta-  | li con  | . 10  | 9     | PricesN   | Apr    | 4          | 26      |
| Molecular computer: Working toward  | Mar      | 21    | 14   | bility   | Juli    | 9 13  | 9     |   |        |            |         |
| a molecular computer; bioengi-<br>neered compounds could store more               |          |       |      | copolymer capacity at Otake, Japan . N   | Apr     | 11    | 24    | D   |        |            |         |
| information on a silicon chip   | Feb      | 8     | 19   | Copper   |         |       |       | _   |        |            |         |
| Optical-disk technology: Du Pont buys<br>the right to use technology from joint   |          |       |      | Arsenic emission standards for copper smelters stalled again   | Jan     | 4     | 13    | Decabromodiphenyl Oxide — Prices N  | June   | 27         | 16      |
| venture with Storage Technology . N   | June     | 13    | 9    | Prices N   | Mai     |       |       | Deicers — Calcium magnesium acetate:  | -      | -          |         |
| Packing more information into chips:<br>light-sensitive material                  | Feb      | 29    | 28   | Copper Phthalocyanine—Du Pont aband-<br>oning pigments line  | Jan     | 4     | 11    | Hot prospects for a road deicer  Deoxyribonucleic Acid see DNA  | Mar    | 28         | 14      |
| Partition coefficients are available on-<br>line                                  | Jan      | 10    | 38   | Copper Sulfate Prices N  | May     | / 2   | 31    | Desiccants — United Desiccants Beleh,<br>N.M. plant to make 15 grades of desic-                               |        |            |         |
| Process control: Where hardware and   |          |       |      | Corn — Agrigenetics funds Australian re-<br>search on genetic engineering of                                   |         |       |       | cant clay products  | Feb    | 8          | 16      |
| Robots that will sniff chemicals: com-  | Jan      | 25    | 20   | corn N   | Apr     | 25    | 30    | Design — Sizing compressors from a data base: Atlas Copco pilot program                                       |        |            |         |
| bining gas-sensitive sensors and  |          |       |      | Corn Syrup   |         |       |       | gives customer access to the supplier's   |        |            |         |
| microprocessing<br>Sizing compressors from a data base:                           | Mar      | 14    | 29   | Immobilized enzyme for corn syrup N<br>Staley expanding capacity for high-                                     | ма      | r 21  | 78    | mainframe   | May    | 2          | 25      |
| Atlas Copco pilot program gives<br>customer access to the supplier's              |          |       |      | fructose corn syrup at Loudon, Tenn.   | 140     |       | 10    | Desulfurization Desulfurizing petroleum coke N  | Mor    | 21         | 78      |
| mainframe   | May      | 2     | 25   | plant  | Ma      | y 2   | 19    | Getting sulfur out of petroleum coke:   | Mar    | 21         | 10      |
| Software-hardware agreement between<br>Honeywell and Setpoint N                   | Apr      | 4     | 34   | Cornell University  Bauman studying use of a growth hor-   |         |       |       | Diamond West's route yields coke<br>for aluminum-refining anodes  | Apr    | 4          | 22      |
| Software modules to save energy N   | Feb      | 8     | 34   | mone to spur milk production   | Apr     | 18    | 11    | Detergents  |        |            |         |
| Talking to computers: Honeywell soft-<br>ware N                                   | Mar      | 21    | 78   | Biological warfare against fire blight. N<br>Synchrotron radiation: X-ray apparatus                            | Fel     | 15    |       | Montedison buys 61% interest in Mira  |        |            |         |
| Toxics: Computers on the track of toxic fumes                                     | Mar      | 7     | 36   | used for catalysis study   | Api     | 18    | 23    | Lanza, enters consumer market N<br>Phosphate detergents will be banned in                                     | May    | 30         | 18      |
| USDA tailors agency-wide computer   |          |       |      | Corrosion  |         |       |       | SwitzerlandN  | May    | 23         | 18      |
| system  | June     | 9 27  | 96   | Ingersoll-Rand develops new corrosion-<br>resistant casting alloy  | Fel     | b 22  | 2 32  | Diagnostics   |        |            |         |
| Concrete Grouts help speed structural repairs . N                                 | Mar      | 7     | 30   | TAFA system to make ductile iron pipe<br>corrosion-proof N   | Jai     |       |       | City of Hope develops test that can de-<br>tect certain genetic diseases by<br>"reading" an individual's DNAN |        |            |         |
| Runway repair materials development   |          |       |      |  | Jai     | , ,,  | 32    |   | Mar    | 21         | 78      |
| program   | May      | 23    | 35   | Cosmetics Faberge will support takeover by   |         |       |       | Diagnostic kits for the detection of<br>hepatitis B   | Mar    | 21         | 78      |
| a boost for chemicals   | Mar      | 21    | 17   | McGregor   | Fe      | b 1   | 1 14  | Diagnostic tests for AIDS-associated<br>virus being developed by Cambridge                                    |        |            |         |
| Conference Board  |          |       |      | Skin lotion ad claims' nonruling: P&G<br>and Chesebrough-Pond's can still                                      | 1       |       |       | BioScienceN   | May    | 9          | 33      |
| Outside directors: A seller's market for<br>outside directors (charts)            | Feb      | 1     | 32   | say they sell the best   | Ju      | ne 27 | 7 14  | Hepatitis-B monoclonal assay from<br>Centocor approved by FDA   | June   | 27         | 96      |
| Strategic planning conference: How the experts plan strategy (table)              |          |       |      | Costs  |         |       |       | Centocor approved by FDA N<br>Koppers and DNH Plant Technology  | -      | -          |         |
| the experts plan strategy (table)   | Mai      | 28    | 11   | Asbestos containment: A controversial<br>alternative   | Ju      | ne 20 | 0 33  | Koppers and DNH Plant Technology<br>form joint venture to develop diag-<br>nostic kits for plant diseases R   | Feb    | 15         | 16      |
| of the Environment": High marks for   | lum      | - 20  | 16   | Cogeneration: Is cogeneration coming<br>of age at last? Texas study outlines                                   | 3       |       |       | Medical diagnostics: Hot and tough to<br>crack — Viewpoint  | Feb    | 20         | 3       |
| a cleanup report  | Jun      | e 20  | 10   | a formula for establishing avoided   | i       |       |       | Medical diagnostics. A red-hot market   |        |            |         |
| Construction  |          |       |      | costs (table) Cogeneration/utility fuss over avoided   | Ju      | ne 1  | 3 10  | for chemicals and hardware (table) .  Letter  | Feb    |            | 30<br>5 |
| Grouts for use with jet injection device<br>help speed structural repairs N       | Ma       | r 7   | 30   | costs: Louisiana processors press  | S       |       | 0 10  | Monoclonals differentiate between can-  |        | 16         | 44      |
| New directions for engineering com-<br>panies                                     | Apr      | 4     | 30   | for better prices for excess power<br>Conductive housings: Filled-resin ma                                     | Fe      | 10    | 8 12  | Ortho Diagnostic Systems' test for  |        |            |         |
| Phosphogypsum wastes: researchers   |          | -     | 00   | terials may produce the lowest-cos<br>EMI shields  | t Fe    | ah    | 1 16  | herpes nears commercialization N<br>Ovulation test goes to the market N                                       | Juni   | e 13<br>25 | 34      |
| look at use as a road base and a construction material                            | Apı      | 25    | 52   | EPA's cost-benefit analyses: construc  |         |       |       | 1,2-Dibromo-Chloropropane (DBCP) —  |        |            | 15      |
| Synthetics for restoring historic fa-<br>cades                                    | An       | r 25  | 54   | tive criticism from GAO report N<br>Florida land reclamation legislation                                       | i Ar    | or 2  | 5 76  | 1,3-Dichloropropene - Dow's Telone II,  | Jan    | 4          | 15      |
| Where did nuclear plants go wrong?  |          | ne 27 |      | rules phosphate processors mus   | t       |       | 6 15  | EDB replacement, goes off the mar-  | Mai    | 7          | 9       |
| Consumer Breduct Safety Commission  |          |       |      | pay all the costs  Landfill gas: Tapping the hidden treas  | -       |       |       | Diesel Fuel Plant-derived diesel fuel . R   | Apr    | 25         | 22      |
| Consumer Product Safety Commission<br>Cancer risk assessment challenged by        | 1        |       |      | ure in landfill gas<br>Louisiana: A plan to rescue the Louisi  | . Ji    | ine 2 | 0 28  | Diethylene Glycolamine — Air Products<br>expanding Pace, Fla. complexR  | Apr    | 4          | 16      |
| ACSH report  Formaldehyde panel seeks scientists. N                               | Ma<br>Ma |       |      | ana chemical industry (table)  | . Ja    | in 1  | 1 10  | Diethylstibestrol — Michigan Supreme<br>Court rules that a group of 238 women                                 |        |            |         |
| Recommending changes be made in   | 1        | . ,   | 40   | Maintenance painting: Numbers on the<br>payoff — Du Pont's program (chart)                                     | e A     | pr 1  | 8 48  | can sue all 16 producers of DES R   | Fel    | 22         | 18      |
| labeling requirement for certain sub-<br>stances contained in household prod-     |          |       |      | Nuclear power's coming rate shoc   | k       |       |       | Dioxin  |        |            |         |
| ucts F<br>Contact Lenses — Extended-wear contact                                  | Jai      | n 18  | 18   | (table)  |         | ar 1  |       | Agent Orange  |        |            |         |
| lenses: International Hydron and 3M   | •        |       |      | please — Viewpoint<br>Nuclear — Where did nuclear plant  | . M     | ar 1  | 14 3  | House backs payments to Vietnam<br>veterans for Agent Orange expo-  |        |            |         |
| agree to joint development of manufac<br>turing techniques                        | R Ma     | ar 28 | 3 19 | go wrong?  | . Ji    | ine 2 | 27 18 | sure N  | Fel    | 8          | 40      |
| turng toorniquos  |          |       |      | Packing's growing role in distillatio<br>(diagram)   | n<br>Ji | une 1 | 13 18 | U.S. Air Force study supports many views in the Agent Orange case: A  |        |            |         |
| Containers  |          |       |      | Pension funds: Keeping the promises  | S,      | lay 3 |       |   |        | ır 14      | 20      |
| Aseptic packaging's hot entry: Real<br>Fresh packaging using CONOFFAST            |          |       |      | cutting the costs (chart & table) Plastics' push for chemical packaging  | . N     | lay : | 14 50 | CDC's Agent Orange/Vietnam Exper-<br>ience study details (table)  | Me     | r 28       | 14      |
| containers that are sterilized with<br>heat when formed                           | 1        | av S  | 15   | Pollution control costs<br>Chemical companies will spend les   |         |       |       | Missouri cleanup costs: EPA sues over   |        | b 1        | 42      |
| — Letter  | Ju       | ne 27 |      | on pollution   | N A     | lay : | 30 40 | dioxin contamination  |        |            |         |
| Bags: multiwall bags for powdered chemicals                                       | i Ma     | ay 30 | 34   | Florio unveils an EPA study on Supe<br>fund's costs  | N F     | eb    | 15 48 | trial for plaintiffs N  | I Jui  | ne 13      | 9       |
| Brockway to purchase Ethyl's IMCC<br>Container business                           | )        | ar i  |      | Seeking ways to speed the cleanu   | ıp qı   | an    |       | Suit the action to the word — and vice<br>versa — Viewpoint   | Ju     | ne 20      | 3       |
| Campbell Soup will look at alternative  |          |       |      | — Correction   |         | eb    | 8 5   | Disinfectants — Swimming-pool chemi-  |        |            |         |
|   |          |       |      |  |         |       |       |   |        |            |         |

| cals: Chemical makers play hard-nosed polo in the pool (chart & table)  | Mar  | 7            | 10       | anti-diabetes drug, Micronase Tab-<br>lets N<br>DES: Michigan Supreme Court rules                         | May  | 23    | 35   | costs: Louisiana processors press<br>for better prices for excess power<br>France: an impasse on electricity        | Feb   | 8    | 12      |
|---|------|--------------|----------|---|------|-------|------|---|-------|------|---------|
| Distillation  |      |              |          | that a group of 238 women can sue<br>all 16 producers of DES  | Feb  | 22    | 18   | ratesÑ<br>Natural-gas gate stations considering   | June  | 13   | 20      |
| ICI's separation device will be mar-<br>keted by Glitsch  | June | 20           | 26       | French producers displeased with drug<br>price policy   | Feb  | 15    | 18   | electric generators powered by pipe-<br>line pressure   | Jan   | 11   | 32      |
| (diagram)<br>Separation Research Program at the   | June | 13           | 18       | Great Britain curbs imports N<br>Greece: Papandreou's squeeze drives                                      | June | 6     | 18   | Rates: No rate pass-alongs, please —<br>Viewpoint   | Mar   | 14   | 3       |
| University of Texas: New ways to  |      |              |          | drug firms out<br>Hahnemann Univ. will expand testing   | Feb  | 8     | 15   | Rates: Nuclear power's coming rate shock (table)  | Mar   |      | 30      |
| bring about cost-effective separation (table)   | May  | 16           | 34       | of new drug, Ampligen, in study of<br>interferon's role in cancer therapy N                               | May  | 23    | 35   | Solar electricity: no near-term payout: N Utilities seeking government help from financial debt created by building |       | 11   | 11      |
| Distribution  |      |              |          | Ibuprofen capacity expansion by Ethyl R<br>Ibuprofen's contested road over the                            | May  | 30    | 17   | financial debt created by building nuclear power plants N   | May   | 2    | 44      |
| Ashland Oil: Building a business on small business  | Apr  | 11           | 26       | counter: marketing moves and a  |      |       |      | DOE proposes a utility aid pack-<br>age. N  | May   |      | 68      |
| Diamond Shamrock domestic distribu-<br>tion network, Ocean Systems Net-<br>work, will offer single-price, single- |      |              |          | challenge to FDA's say on consumer<br>advertising<br>Interferon see Interferon                            | June | 6     | 12   | Winning more watts from waste heat:<br>Omnimax to build thermoelectric  |       |      |         |
| contract service covering transpor-<br>tion N   | Apr  | 11           | 11       | Monsanto makes a drug acquisition,<br>Continental Pharma, in Belgium R                                    |      |       |      | generators (diagram) Electricity Consumers Resource Council   | June  | 6    | 26      |
| Distributor relations: Getting closer to  |      | 11           | 3        | Jan 25-17, New drugs: FDA takes a shot at the   | Jan  | 25    | 57   | (ELCON) — Nuclear power's coming rate shock (table)   | Mar   | 14   | 30      |
| distributors — Viewpoint  | Jan  | 11           | 34       | U.K. drug-approving record N<br>New York City Health and Hospitals  | Apr  | 11    | 58   | Electrochemicals — Dart & Kraft un-<br>loads its plastic specialties  | Apr   | 18   | 12      |
| <ul> <li>Letter</li> <li>Inventories: How companies are hold-</li> </ul>  | Mar  | 28           | 5        | Corp.'s former employee indicated   |      |       |      | Flectroendosmosis — Clay settling tech-   | Apr   | 10   | 12      |
| ing down inventories (charts)   | Feb  | 8            | 28       | in drug fraud scheme R<br>Nova acquires rights from the Univ. of  | May  | 9     | 22   | nology will be tested at Mobil Chemi-<br>cal's Ft. Meade, Fla. phosphate mine . N                                   | Jan   | 25   | 19      |
| companies acquired N  | Feb  | 1            | 9        | Minnesota to market opiate drugs . N<br>P&G: Getting poised for big new mar-                              | Mar  | 14    | 46   | Electrohydrodimerization of formalde-<br>hyde — Electrolytic route to ethylene                                      |       |      |         |
| DNA   |      |              |          | kets<br>Patent bill passes a House commit-  | June | 27    | 12   | glycol N<br>Electrolytes — Medical diagnostics. A   | Feb   | 22   | 32      |
| Agrigenetics funds Australian research<br>on genetic engineering of corn N  | Apr  | 25           | 30       | teeN  | June | 20    | 74   | hot market for chemicals and hard-  |       |      |         |
| Bone regeneration research agree-<br>ment signed by Monsanto and Colla-   |      |              | 00       | Patent reform: drug makers måke<br>peace on patent reform N   | May  | 23    | 40   | ware (table) Electrolytics — Electrolytic route to ethyl-   | Feb   |      | 30      |
| gen   | Apr  | 25           | 30       | Patents: A near-pact on drug patents<br>(table)   | May  |       | 14   | ene glycol from synthesis gas N<br>Electromagnetic Interference — Conduc-   | Feb   | 22   | 32      |
| City of Hope develops test that can de-<br>tect certain genetic diseases by                                       |      |              |          | Peptide synthesizers agreement signed   | ,    | -     |      | tive housings: Filled-resin materials<br>may produce the lowest-cost EMI  |       |      |         |
| "reading" an individual's DNA N<br>Factor VIII: A wide-open field in the  | Mar  | 21           | 78       | by Hoffmann-LaRoche and Vega<br>Biotechnologies   | June | 27    | 96   | shields   | Feb   | 1    | 16      |
| race for factor VIII  | Jan  | 11           | 22       | Saudi Pharmaceutical Industrial plans<br>drug plant   | Feb  | 8     | 17   | Electron Beams  |       |      |         |
| Leader in the factor VIII race: Genen-<br>tech uses r-DNA to make a blood-  |      |              |          | Searle Pharmaceutical withdraws court   |      |       |      | China's Shanghai Electrical Machinery   |       |      |         |
| clotting protein Gene-splicing group, Assn. of Biotech-   | May  | 9            | 17       | theophylline antibronchial drug,  | Cab  | 00    | 10   | buys electron beam system from<br>Energy Sciences   | May   | 9    | 33      |
| nology Companies, seeks faster  | F-1- | 00           | 50       | T-cell growth factor: Who's ahead in  | Feb  |       | 18   | Monsanto will urge irradiating grain<br>with electron beams instead of EDB  | -     |      |         |
| patent approval   | Feb  | 22           | 50       | the IL-2 race? Upjohn studying minoxidil high blood   | Apr  | 18    | 16   | treatment N   | Feb   | 22   | 9       |
| mentalists demand impact state-<br>ments  | Feb  | 29           | 35       | pressure medication as a hair stimu-  | Mar  | 20    | 19   | Some rays of hope for irradiating food<br>(chart)   | Apr   | 11   | 33      |
| Genetic frost-resistance test may be  | Apr  | 25           | 76       | Vaccines  | Mai  | 20    | 13   |   |       |      |         |
| blocked by environmentalists N<br>Federal court stops an open-air DNA   |      |              |          | Cholera vaccine: Univ. of Maryland<br>reports success of genetically                                      |      |       |      | Du Pont buys technology for electronic  |       |      |         |
| experiment  | May  | 23           | 40       | engineered vaccine N<br>Merck's chickenpox vaccine: A tri-  | Jan  | 25    | 19   | imaging: obtains rights to Savin's<br>Landa electrostatic technology N  | Mar   | 28   | 9       |
| flames.<br>New effort to stop open-air r-DNA  | June | 9 13         | 14       | umph for conventional microbiol-  | lum  |       | 9    | Electronic chemical investments (3) for<br>Nalco  | Jan   | 4    | 9       |
| experiments N   | June | e 27         | 102      | 'Military' gene project to combat   | June |       |      | Electronic chemicals: Nalco Chemical  | Jan   | 4    | 9       |
| Genentech developing a selective anti-<br>cancer agent called lymphotoxin<br>through the use of r-DNA technol-    |      |              |          | dysentery stirs furor University of Maryland working to   | reb  | 15    | 12   | acquiring Circuit Services, buying<br>20% equity stakes in Rodel and  | lan   | 44   | 10      |
| ogv   | June | e 13         | 34       | develop a vaccine against the<br>diarrhea-causing cholera bacteria  | Feb  | 15    | 12   | Rodel Products GE's water coating, key to new chip  | Jan   |      | 12      |
| Interferon see Interferon NIH's Recombinant DNA Committee to  |      |              |          | Duke University   |      |       |      | technology  | June  | 6    | 17      |
| reevaluate its role   | Jan  | 18           | 44       | Partnership with Aquanautics to re-   | Mar  | 20    | 34   | and a hi-tech idea aren't enough<br>(chart)   | Apr   | 11   | 44      |
| showdown  | Feb  | 15           | 48       | Protein-based chemical coating for  |      | y 30  |      | Olin: In electronic chemicals, a triple-<br>threat contender  | Mar   |      | 11      |
| point<br>Regulatory chaos looms for biotech-  | Feb  | 29           | 3        | bass lures  | Jun  | e 13  | 17   | Photochemicals' new image: Du Pont<br>and Hercules will push electrostatics   | IVIGI | 149  | **      |
| nology  | Feb  | 29           | 35       | -   |      |       |      | beyond photocopiers   | Apr   | 4    | 11      |
| A call for comments on regulating biotechnology   | May  | , 2          | 44       | E   |      |       |      | Westvaco will offer system to control<br>the harmful effect of corrosive gases                                      |       |      |         |
| T-cell growth factor: Who's ahead in the IL-2 race?   | Apr  | 18           | 16       | "Economic Trends"   |      |       |      | on electronic control devices N   | Mar   | 14   | 46      |
| Dominican Republic — Chemical exports:<br>At stake in the international banking                                   |      |              |          | Chemical industry leading indicator   |      |       |      | Electrostatic Imaging   |       |      |         |
| rescue (charts)   |      | e 20         | 53       | (chart & table) Feb 1-18, Mar 7-18,<br>Apr 4-20, May 2-40,  | Jur  | ne 6  | 5    | Du Pont buys technology for electronic<br>imaging: obtains rights to Savin's  |       |      |         |
| Drilling — Oil's lure for urethane makers   | Apr  | 25           | 16       | Chemical industry leading indicator:<br>Halcyon days ahead for chemical                                   |      |       |      | Landa electrostatic technology N  | Mar   | 28   | 9       |
| Advertising: reactions to direct adver-   |      |              |          | companies   | Jan  | 1 4   | 9    | Photochemical's new image: Du Pont<br>and Hercules will push electrostatics   |       |      |         |
| tising of prescription drugs N  | Apr  | 25           | 76       | 18-19, Feb 15-17, Mar 14-26, Apr  |      | - 40  |      | beyond photocopiers   | Apr   | 4    | 11      |
| Animal drugs see Animal drugs<br>Antibiotics see Antibiotics  |      |              |          | 18-18, May 16-5,<br>Monthly production report (charts) Jan  | Jui  | ne 13 | 5    | Electrosynthesis  |       |      |         |
| Antidepressant drugs for treating anxi-<br>ety disorders: National Institute of                                   |      |              |          | 25-18, Feb 29-14, Mar 28-20, Apr 25-26, May 30-5,   | Jui  | ne 27 | 86   | Electrolytic route to ethylene glycol   | Eob   | 22   | 22      |
| Mental Health soliciting grant appli-<br>cations  | lan  | 18           | 18       | Education   |      |       |      | from synthesis gas N<br>Ethylene glycol: Massive restructuring  | Feb   |      | 32      |
| Bolar Pharmaceutical prohibited from  | Jan  | 10           | 10       | Engineering research centers: report  |      |       |      | in a 'crummy' business (charts)<br>EG by electrohydrodimerization of  | Mar   | 7    | 32      |
| selling product said to imitate Ciba-<br>Geigy's Apresazide: Supreme Court  |      |              |          | from National Academy of Engi-<br>neering   | Ma   | r 7   | 30   | formaldehyde  | Mar   | 7    | 35      |
| will not review decision  | Ma   | r 14         | 24       | Science in the streets: Let's clean up the act — Viewpoint  | Ma   | v 9   | 3    | Keeping the promises, cutting the   | Mar   | 20   | 32      |
| tive anticancer agent called lym-<br>photoxin N   | lum  | 10 13        | 34       | Elastomers  |      | ,     |      | costs (chart & table)   | May   | 30   | 32      |
| Chymopapain: A back-drug labeling   |      |              |          | Dow selects Warwick Chemical as a   |      |       |      | Employment  |       |      |         |
| change  | Jur  | ne 20        | 23       | primary distributor of its chlorinated<br>polyethylene elastomers R<br>Montedison's U.S. sales rep, Cambo | M    | ay 2  | 19   | CW's leading indicator: Halcyon days<br>ahead for chemical companies N<br>Layoffs                                   | Jan   | 4    | 9       |
| River, N.J. to Foster Wheeler R   | Ma   | y 30         | 17       | Inc., will pitch elastomers to De-  |      | n 18  | 3 16 | BFG Chemical's white-collar ranks   | Mai   | 28   | 9       |
| Ciba-Geigy gives gift of drugs to fight<br>leprosy in India   | Fel  | b 29         | 16       | troit   | 98   | 10    | , 10 | face a 23% cutback N<br>France: CdF Chimie plans cut-   |       |      | -       |
| Controlled-release drugs: Forest Labs'<br>patent for Synchron technology vali-                                    |      |              |          | Electric Power Generation Alumax chooses Quebec as site for   |      |       |      | backs   |       | 25   | 57      |
| dated   | Jar  | n 11         | 16       | aluminum plant because of cheaper electrical rates  | Ec   | b 15  | 16   | Jose, Calif. N<br>More jobs but tight money R   | Feb   | 29   | 5       |
| trypsin for treating emphysema,<br>granted "orphan drug" status N   |      | h ne         | 00       | BPA rates: High Court favors industrial   |      |       |      | Ohio launches program to attract high-  | ividy | 20   | "       |
| Custom drug houses: The new entries   | Ma   | b 29<br>ly 9 | 28<br>46 | power users   | -    | ne 13 |      | tech industrial enterprises, the Thomas Alva Edison Program (table)   | Mag   | y 23 | 14      |
| Diabetes: oral medicines' product la-   |      |              |          | cheap hydropower  |      |       |      |   |       |      |         |
| bels must be altered  | Ap.  | r 25         | 22       | Cogeneration see Generators Cogenerator/utility fuss over avoided   | IVIC | y 23  | 22   | Seeing 'yoursels' as students see you  — Viewpoint  Ernulsions — VAE emulsions prices N                             |       | 18   | 3<br>28 |

| Sales and Control Sales and Co | Encapsulation   |       |       |    | Butadiene's proposal risks weighed . N<br>Cancer risk assessment challenged by          | Jan   | 4     | 44 | Ethylene<br>Dow takes write-off on ethylene unit at                        |       |      |           |
|--|---|-------|-------|----|---|-------|-------|----|--|-------|------|-----------|
| Description of the content of the    | Asbestos containment: A controversial alternative                             | June  | 20    | 33 | ACSH report   | May   | 9     | 26 | Freeport, Tex. N Feedstocks see also Petrochemicals                        | Feb : | 22   | 9         |
| isse to do more.  May 23 92  Down will support present of the company efficient of the company e | based medical products N<br>Time-release herbicides: How to use               |       |       |    | Cost-benefit analyses: constructive crit-<br>icism from GAO report N                    | Apr : | 25    | 76 | Feedstocks     Inventories edge up   |       |      |           |
| Commonwealth   Comm   |   | May   | 23    | 32 | Dow will supply internal data on Mid-   |       |       |    | Japanese production N  | May   | 23   |           |
| ## 25   April 19   Apr | Ammonia: Whose NH, plant is the most  |       |       |    | dispute N   | Арг   | 4     | 40 | ity may be a bonanza for Europe's<br>petrochemical makers (chart)          | Jan   | 25   | 16        |
| Canadian Petrochemical produces of control and part of the control | monia Casale technology, challenges   | Mar   | 21    | 15 | ders a halt on the use of EDB N<br>FIFRA see <b>Law</b>                                 | Feb   | 8     | 40 | Markets remain sluggish N<br>OxyChem will restart mothballed plant         | Feb   | 22   |           |
| Noge for new pricing glan for crade DOC Seays emergy reflocionery urine, as June 2 1 5 00 Control of the Contro |   | June  | 20    | 5  | Glycol ethers: A coming ban on four   |       |       |    | Packing's growing role in distillation                                     |       |      |           |
| DCE are servery efficiency will read in the product of the product | hope for new pricing plan for crude<br>oil and natural gas                    | May   | 9     | 25 | Groundwater protection policy being   |       |       |    | Prices N Jan 11-25, N  | Mar   |      | 65        |
| The Coal nate of the Second Coal nate of the Coal nate of | DOE says energy efficiency will rise. N                                       | June  | 6     | 40 | Hazardous-waste rules see Waste Dis-  | Jan   | 11    | 14 | Production N   |       | 8    | 20        |
| Such gronnesses in Particular June 20 20 20 20 20 20 20 20 20 20 20 20 20  | Power Generation  |       |       |    | Illinois hazardous waste site suit set-   |       |       |    | based petrochemical complex read-  |       |      |           |
| une in fuertiligate un funcional industry (tubbo) Anne growth provided in coloration of the control of the control of the coloration of th | fuel, Coal, etc.  |       |       |    | Inspections: Stauffer wins an inspec-   |       |       |    | ied for startupN<br>Ethylene Bisamides — PricesN                           |       |      | 16<br>57  |
| and chemical industry (final) and calcular plants governoy?  Oil arborings are Petrologis and Potes (Saber Special Continuing and Potes (S | ure in landfill gas   | June  | 20    | 28 | Lavelle, Rita M. gets six-month sen-  |       |       |    | Ethylene Dibromide   |       |      |           |
| plantage wrong Petroleum  February Process to save pengry N Petroleum  February N Petrol | ana chemical industry (table) Nuclear power: Where did nuclear                | Jan   | 11    | 10 | Ocean incineration see Incineration   | Jan   | 18    | 44 | tain chemical companies N  | Feb   | 22   | 9         |
| Symmetric busines are Fuel U.S. emergrour well reag.  I.S. emergrour well r | plants go wrong? Oil shortages see Petroleum                                  | June  | 27    | 18 | stances: Bringing balance to toxics   |       |       |    | food (chart)   | Apr   | 11   | 33        |
| U.S. energy use will leap.  N. Jun 2 4 4 4 5   | Software modules to save energy N   | Feb   | 8     | 34 | sure that all parties know how we   |       |       |    | Controversy causes clamor for amend-<br>ments to FIFRA: A badly timed call |       |      |           |
| Adulty to be delayed services of an engineering generation consequence of the family state route between the family state route between the family state route between the family state of the family state route between the family state of the family state route between the family state of the family state route between the family state of the fa | U.S. energy use will leap N   | Jan   | 4     | 44 | Pesticides  | мау   | 9     | 53 | Controversy leads to renewed interest                                      | Mar   | 14   | 3         |
| Hemilydrate processes. HyD, makin. Mar 1 4 46 hemilydrate processes. HyD, makin. Mar 1 4 46 hos against the hemilydrate processes. HyD, makin. Mar 1 4 46 hemilydrate processes. HyD, makin. HyD,  | Engineering<br>Advice on engineering research cen-                            |       |       |    | dustry to be delayed  | Jan   | 11    | 16 | lines are being drawn over FIFRA   |       |      |           |
| Louisian A plan to the ferminytals route.  Apr 1 35  Apr 2 35  Apr 3 4 30  Apr 4 30  A | tersN   | Mar   | 7     | 30 | Pesticide Advisory Committee be-  |       | 40    |    | Dow's Telone II. EDB replacement.  |       |      |           |
| Apr 4 35 Science Aprisonmental processors assessed assessment from a data bases. Science Aprisonmental Processors assessment from a data bases of the Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processor from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprison Science Aprisonment Processors from a data bases. The Control of Surgician Science Aprisonment Processors from the Control of Surgician Science Aprisonment Processor from the Control of Surgician Science Aprisonment Processors from the Control of Surgician Science Aprisonment Processor from the Control of Surgician Science Ap | look again at the hemihydrate route.<br>Hi-tech polymers from 'ordered' mole- | Mar   | 14    | 48 | Probing chemical causes of infertility  |       |       |    | Dow boosting Telone-based products   |       |      |           |
| Separation Research Program at the plant Intelligram) Separation Reliarch Program at the plant Intelligram of the foliage and the separation Reliarch Program at the plant Intelligram of the foliage and the separation Reliarch Program at the plant Intelligram of the foliage and the separation Reliarch Program at the plant Intelligram of the foliage and the separation Reliarch Program at the plant Intelligram of the foliage and the separation Reliarch Program at the plant Intelligram of the foliage and the Reliarch Program of the Reliarch Program of the Reliarch Program at the  | cules   | Apr   | 11    | 35 | teeth in EPA's civil penalties  | June  | 13    | 36 | EDB alternatives explored at Congres-                                      |       |      |           |
| plant fak kidagram) popular at the full program at the University of Preas. New years to bring about cost-effective separation bring about cost-ef | panies  | Apr   | 4     | 30 | gets a hearing at EPA   | Feb   | 1     | 23 | EDB substitutes: FDA wants to give the                                     | Мау   | 16   | 68        |
| bring about cost-effective separation integration of the property of the prope | plant risk (diagram)<br>Separation Research Program at the                    | Feb   | 22    | 29 | testing out to the toxics   | May   | 30    | 35 | EDB alternative  | Feb   | 22   | 50        |
| Gabelo-morressors from a data base. Allas Cappo pilot program gives customer access to the supplier's mainframe access to | University of Texas: New ways to  |       |       |    | icals sought  | Feb   | 29    | 40 | radiating grain with electron beams;                                       |       |      |           |
| Count mainframe May 2 25 Environment  Environment  Cliff A decade of success for Cliff Cliff society feeting; the pace is de- Cliff A decade of success for Cliff Cliff society feeting; the pace is de- Conservation Foundations "State of the Environment" High marks for a cleanangement with the Environment Foundations of the Cliff Agency Cliff and State of the Environment Foundations of the Environment Foundations of the Cliff Agency Cliff and State of the Environment Foundations of the Environment Foundation Foundations of the Foundation Foundations of the Foundation Foundations of the Foundations of the Foundations of the Foundation Foundations of the Foun | (table) Sizing compressors from a data base:                                  | May   | 16    | 34 | to be built N   | Mar   | 14    | 58 | EPA sets new EDB tolerance levels N  |       |      | 9         |
| mainframe May 2 25 Environmental resource Council Current Council Coun | customer access to the supplier's   |       |       |    | CourtN  | June  | 6     | 40 | ready-to-eat foods R   | May   | 23   | 17        |
| Cill' A decade of success for CIIT Cill Toxicity testing: the pace is de- Cill Toxicity testing: the pace is de- Cill Exercity testing: | mainframe   | May   | 2     | 25 | research budget: Still far below 1980   |       |       | 07 | California stores  | Feb   | 8    | 16        |
| Liberate Conservation Foundation's "State of the Environment": High marks for a June 20 16 Conservation Foundation's "State of the Environment": High marks for a June 20 16 June 20 17 June 20 18 Jun | CIIT: A decade of success for CIIT  | June  | e 27  | 83 | in real terms (chart)   | Apr   | 4     | 21 | dataN  | Jan   | 25   | 80        |
| Conservation contained in State of the clearup group of the protection from nerve gas. N. Pages 2 and the protecti | liberate  | June  | e 27  | 85 | Enzymes Acetylcholinesterase; an enzyme may   |       |       |    | of FDB N   |       |      | 40        |
| Designation of the photosets of the phot | Conservation Foundation's "State of the<br>Environment": High marks for a     |       |       |    | offer protection from nerve gas N   | Jan   | 25    | 19 | Substitutes: Challenges for EDB sub-                                       |       |      | 3         |
| Ethylane Dichinride — Australia: CRA with a characteristic Company form point venture and experience of the phase of the p | DNA: field-test of r-DNA see DNA  | June  | e 20  | 16 | contract to Bio-Response N<br>China: Promega Biotec and Louyand                         | Feb   | 29    | 28 | Why the EDB health flap may hurt bro-                                      |       |      | 10        |
| Gardiner's East lampa, Fla. phose phate plant may be closed over the Louisians. A plan to rescue the Louisians and call provessed the provided pollution. A plan to rescue the Louisians and plan the process to remove ascendance and plan the process to remove ascendance and plan the plan  | Agency  |       |       |    | District Foodstuffs Company form joint venture  | Jan   | 11    | 16 | Ethylene Dichloride — Australia: CRA                                       | 1 00  | 15   | 10        |
| Louisiania A plan to rescue the Louisiania A plan to rescue the Louisiania Chaptriglia (Laurisiania Chaptriglia) Jan 11 10 Louisiania Environmental Dept. formed. Winston Day to head the new agenumental Dept. formed. Winston Day to head the new agenumental Cept. formed. Winston Day to head the new agenumental Cept. formed. Winston Day to head the new agenumental Cept. formed. The pollution control costs.  Chemical companies will spend less on pollution of the right search of the pollution. The pollution control costs on pollution. A printing of the right search of the provide and the enzyme horserada in pollution search on pollution. A printing of the right search of the pollution control costs.  Note that the pollution of the right search of the pollution of the pollution. The pollution control conservation and Recovery Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic upheaval sive economic upheaval of the pollution. The pollution control conservation and recovery Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic upheaval sive economic upheaval and the provided season of the right search of the right s | phate plant may be closed over  |       |       |    | changeR   |       |       |    | Asahi for ethylene dichloride plant N                                      | May   | 30   | 18        |
| Louisiana Environmental Dept. formed: Winston Day to head the new agency Oy to make the new agency On the new agency Oy to make the new agency On the new agency Oy to make the new agency Oy to make the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make the new agency Oy to make a politor of the new agency Oy to make a politor of the new agency Oy to make the new agency Oy to make a politor of the new politor  | Louisiana: A plan to rescue the Louisi-                                       |       |       |    | Medical diagnostics. A red-hot market   |       |       |    | Ethylene Glycol  |       |      |           |
| Pollution control costs Chemical companies will spend less on pollution Floric unveils an EPA study on Superfund's costs on pollution Floric unveils an EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's costs on Pollution Floric unveils and EPA study on Superfund's co | Louisiana Environmental Dept. formed;   | Jan   | 11    | 10 | Treating wastewater by polymerizing   | Feb   | 29    | 30 | point  | Mar   | 7    | 3         |
| Chemical companies will spend less on pollution Floric unveils an EPA study on Superfund's costs Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the Seeking ways to speed the cleanup (table) Feb 8 5 Seeking ways to speed the cleanup (table) Cable of the | cy  | Jan   | 18    | 18 | peroxide and the enzyme horserad-   |       |       |    | from synthesis gas N Ethylene glycol: Massive restructuring                | Feb   | 22   | 32        |
| Florio unveils an EPA study on Superfund's costs N Seeking ways to speed the cleanup (table)  — Correction  Resource Conservation and Recovery Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests banned: opponents predict a massive economic uphreaval Spraying herbicides in U.S. forests Banned: Profession sublidation to banned expredict and conditions and cast forest predict a massive economic uphreaval profession sublidation to banned: a feeting and cash forest predict a massive economic uphreaval profession and cash for EPA — View-point profession and cash | Chemical companies will spend less  | Mar   | . 20  | 40 | Equipment — Prices for new plant and  |       |       |    | in a 'crummy business' (charts)  |       |      | 32        |
| Seeking ways to speed the cleanup (table) — Correction Resource Conservation and Recovery Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic upheaval Synthetic fuels see Fuel Indices Activists gear up for a push on N. Environment see also Air Poliution; Disoxit; Toxics; Waste Disoxes; Waste Disoxes; Waste Disoxes; Waste Disoxes; Waste Disoxes, Standards; stalled again Benzene emissions see Benzene Biotechnology; Congress pushes for biotechnology; Congress push | Florio unveils an EPA study on Su-  |       |       |    | Erythropoietin - Amgen makes geneti-  | Feb   | 8     | 9  | Prices N May 30-24,  | Jun   | e 20 | 60        |
| Resource Conservation and Recovery Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic upheaval Synthetic fuels see Fuel Toxics: Activists gear up for a push on toxics Environment see also Air Pollution, Dioxic, Toxics; Waste Disposal; Waste Utilization; Water Pollution  Environmental Protection Agency Anilines: Looking for the right test N Arsenic standards: stalled again Benzene emissions see Benzene Bitotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology regulation N Budget Brains and cash for EPA — View-point Budget calls for Superfund extension Biotechnology: Congress pushes for biotechnology regulation N EPA needs good science, not an inflated budget — View-point Aresearch-maining budget for EPA? (Chamil majors join push for more R60 Druding Other views: EPA needs 8 R80 more) Drayon.  House approves an increase in EPA's budget Brains and cash for EPA — View-point Aresearch-maining budget for EPA? (Chemical majors join push for more R60 Druding Other views: EPA needs 8 R80 more) Drayon.  House approves an increase in EPA's budget EPA will wait for the results of ethylene oxide elsets.  May 2 38  Ethylene Qxide EPA will wait for the results of ethylene oxide delsets.  Acrylic esters prices N Ethylene oxide elsets Ethylene oxide elsets  Acrylic esters prices N Ethylene oxide elsets  Ethylene Oxide EPA will wait for the results of ethylene oxide delsets.  Bethylene oxide elsets  Ethylene Prices N Bethylene oxide elsets  Ethylene Oxide EPA will wait for the results of ethylene oxide delsets.  Bethylene oxide elsets  Ethylene Oxide Sists  Acrylic esters prices N Bethylene oxide elsets  Ethylene price oxide output:  Esters of acetic acid prices N Bethylene oxide output:  Esters of acetic acid prices N Bethylene oxide output:  Esters of acetic acid prices N Bethylene oxide output:  Esters of acetic acid prices N Bethylene Oxide Glove.  Bethy | Seeking ways to speed the cleanup   |       |       |    | anemia N  | Jan   | 11    | 32 | used in new process to remove as-  | Apr   | 4    | 34        |
| Act see Law Spraying herbicides in U.S. forests banned: opponents predict a massive economic upheaval Synthetic fuels see Fuel Toxics: Activists gear up for a push on toxics  Environment see also Air Pollution; Dioxit, Toxics; Waste Disposal; Waste Utilization; Water Pollution  Environmental Protection Agency Anilines: Looking for the right test Acrylic esters prices N Esters of acetic acid prices N Feb 8 Arsenic standards: stalled again Benzene emissions see Benzene Biotechnology: Congress pushes for biotechnology: congress pushes for biotechnology: regulation Biotechnology: regulation N Ethano  Environmental Protection Agency Anilines: Looking for the right test N Acreanic standards: stalled again Benzene emissions see Benzene Biotechnology: regulation N Ethano  Ethano  Ethano  Canada: Esso Resources plans ethane extraction plant as part of enhanced oil recovery program in haberta. N Qatar's Omm Said petrochemical complex to get new feedstock unit.  Acreanic standards: stalled again Benzene emissions see Benzene Biotechnology: regulation N Budget Birans and cash for EPA — View-point Budget calls for Superfund extension Sion Chemical major join push for more Office with the testinus of entiquene oxide tests Acrylic esters prices N Feb 1 48 Esters Acrylic esters prices N Feb 2 Esters of acetic acid prices N Feb 5 48 Ethano  Canada: Esso Resources plans ethane extraction plant as part of enhanced oil recovery program in haberta N Qatar's Omm Said petrochemical complex to get new feedstock unit of enhanced oil recovery program in haberta N Canada: Esso Resources plans ethane extraction plant as part of enhanced oil recovery program in haberta N Canada: Esso Resources plans ethane extraction plant as part of enhanced oil recovery program in haberta N Canada: Esso Resources plans ethane extraction plant as part of enhanced oil recovery program in haberta N Canada: Esso Resources plans ethane extraction plant as par | - Correction  |       |       |    | Genex: The management evolution at  | May   |       | 20 | Ethylene Oxide   |       |      |           |
| banned: opponents predict a massive economic upheaval six economic upheaval synthetic fuels see Fuel Toxics: Activists gear up for a push on toxics See Fuel Toxics: Activists gear up for a push on See Fuel Toxics: Activists gear up for a push on See Fuel Toxics: Activists gear up for See Fuel Toxics: Activity See Fuel Toxics: Activists gear up for See Fuel Toxics: Activity See Fuel T | Act see Law   |       |       |    | Genex   | rvia  | y 2   | 30 | oxide tests N  | Jan   | 11   | 42        |
| Synthetic fuels see Fuel Toxics: Activists gear up for a push on toxics  Environment see also Air Pollution; Di- oxir, Toxics; Waste Disposal; Waste Utilization; Water Pollution  Environmental Protection Agency Anilines: Looking for the right test N Arsenic standards: stalled again Benzene emissions see Benzene Bitotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology regulation N Budget Brains and cash for EPA View- point Budget calls for Superfund extension Read spod science, not an inflated budget – View-point A research-mailming budget for EPA? (Chamila majors join push for more R6D funding Other views: EPA needs 900 science, not an inflated budget – View-point A research-mailming budget for EPA? (Chemical majors join push for more R6D funding Other views: EPA needs R6D more) Drayton Other views: EPA needs R6D more) Drayton Feb 8 Apr 4 Apr 4 Apr 4 Apr 4 Chemical majors join push for more R6D funding Other views: EPA needs R6D more) Drayton House approves an increase in EPA's budget Feb 1 Apr 25 Apr 25 Besters of acetic acid prices N June 13 48 Ethana Canada: Esso Resources plans ethane extraction plant as part of enhanced of all recovery program in Alberta N Qatar's Omm Said petrochemical complex to get new feedstock unit N Catar's Omm Said petrochemical complex to get new feedstock unit N Canada: Esso Resources plans ethane extraction plant as part of enhanced of the complex to get new feedstock unit N Catar's Omm Said petrochemical complex to get new feedstock unit N Catar's Omm Said petrochemical complex to get new feedstock unit N Catar's Omm Said petrochemical complex to get new feedstock unit N Canada: Esso Resources plans ethane extraction plant a post of enhanced di irecovery program in Alberta N Canada: Esso Resources with dark and the survey feedstock unit N Canada: Esso Resources with and the artic | banned: opponents predict a mas-  | Ma    | v 2   | 15 | Acrylic esters prices   |       |       |    | in a 'crummy business'   | Ma    | 7    | 32        |
| Toxics Coxics Nate Disposal; Waste Disposal; W | Synthetic fuels see Fuel  |       | , -   |    | Esters of acetic acid pricesN   | Jun   | e 13  | 24 | ance supply and demand (charts)  |       |      | 33        |
| oxity Toxics; Waste Disposal; Waste Utilization; Water Pollution  Environmental Protection Agency Anilines: Looking for the right test N Arsenic standards: stalled again Benzene emissions see Benzene Bitotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology regulation N Budget Brains and cash for EPA View-point Budget calls for Superfund extension N EFA needs good science, not an inflated budget – View-point A research-mailming budget for EPA? (Chamical majors join push for more R6D funding Other views: EPA needs R6D monstly Other views: EPA needs R6D monstly Drayton Evision Interviews: EPA needs R6D monstly Drayton Other views: EPA needs R6D monstly Drayton Other views: EPA needs R6D monstly Drayton Evision United Tarit, La. N Catar's Omm Said petrochemical complex to get new feedstock unit . N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set with extensive plastic bottle using EVAL.  Mar 14  Ettylene Viryl Accobic — Vetw-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. N  Ettylene Viryl Accobic — View-point set write-of on facility near Sarmia, Ont. | toxics N Environment see also Air Poliution: Di-                              | Fet   | 15    | 48 | Ethane Canada: Esso Resources plans ethane  |       |       |    | Prices N May 30-24, N June 20-60, N  |       |      | 102<br>16 |
| Environmental Protection Agency Anilines: Looking for the right test. N Arsenic standards: stalled again Benzene emissions see Benzene Biotechnology: Congress pushes for biotechnology: Congress for for feather pushes and all s | oxin; Toxics; Waste Disposal; Waste<br>Utilization: Water Pollution           |       |       |    | extraction plant as part of enhanced  | Mar   | v 30  | 18 | restarting EO I unit at Taft, La N   | Jan   | 25   | 9         |
| Anilines: Looking for the right test A research and stated again Benzene emissions see Benzene emissions see Benzene Biotechnology: Congress pushes for biotechnology regulation N Budget Brains and cash for EPA Viewpoint Budget calls for Superfund extension N EPA needs good science, not an inflated budget Vewpoint A research-mailming budget for EPA? (chart) Apr 4 3 Chemical majors join push for more RBD funding N Other views: EPA needs RBD money N N N May 30 440 N N M N M N M N M N M N M N M N M N M  |   |       |       |    | Qatar's Omm Said petrochemical com-   |       |       |    | write-off on facility near Sarnia, Ont N                                   | Fet   | 22   | 9         |
| Benzene emissions see Benzene Biotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology: Congress pushes for biotechnology regulation N Budget Brains and cash for EPA — View- point Budget calls for Superfund exten- sion N EPA needs good science, not an in- flated budget — Viewpoint A research-mailming budget for EPA? (chari) Chemical majors join push for more R&D funding  Apr 4 Chemical majors join push for more R&D funding Chemical majors join push for more R&D funding Apr 4 Apr             | Anilines: Looking for the right test N  |       |       |    |   |       |       |    |  |       | r 14 | 50        |
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| point point calls for Superfund extension of the state of | Budget Budget   | Ма    | ar 28 | 48 | BEC's solvent pulping process   | Jan   |       |    | point  |       | 25   | 3         |
| Dealth over lead substitutes (chart)  EPA needs good science, not an in- flated budget — Viewpoint  Apr 4  Apr 4  Apr 4  Apr 4  Apr 4  Apr 4  Apr 5  Cheart, Charth-malming budget for EPA? Chearth-malming budget for EPA? Apr 4  Ethylene gycot Massive restructuring In a 'crummy business (charts & table) Chearth-malming budget for EPA? Apr 4  Ethylene approach and film subject to new tarifts (table) Feb 8  Steptime for EPA? Chearth-malming budget for EPA? Chearth-malming budge |   |       | b 1   | 3  | long haul (table)   | Jur   | ne 27 | 8  | to build?  | Ma    | r 28 | 39        |
| A research-mailming budget for EPA? (chart).  Apr 4 27 Chemical majors join push for more R&D funding  | sionN   | Fe    | b 1   | 42 | <ul> <li>battle over lead substitutes (chart) .</li> </ul>                              | Ma    | r 28  | 27 | low-growth business (charts & table) .                                     | Feb   | 0 1  | 26        |
| A research-maiming budget for EPA? (chart)  Apr 4 27 Chemical majors join push for more R&D funding N N Other views: EPA needs R&D money now to avoid waste later. William Drayton.  Apr 2 3 House approves an increase in EPA's budget  Apr 3 3 40  Apr 4 27  2-Ethoxyvethanol, 2-ethoxyethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 5 3 40  Apr 6 2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  2-Ethoxyvethanol actatie — Stauffer plans unit at Weston, Mich.  Apr 4 16  | EPA needs good science, not an in-<br>flated budget — Viewpoint               | Ap    | r 4   | 3  | converts sugar glucose to ethanol . R   | Ma    | r 21  | 19 | Ethylene glycol: Massive restructuring                                     | Ma    | . 7  | 32        |
| Chemical majors join push for more R&D funding. N Apr 11 58 Other views: EPA needs R&D money now to avoid waste later. William Drayton.  Apr 25 3 Ethyl Silicate — Stauffer plans unit at Weston, Mich. PA's budget in EPA's b | A research-maiming budget for EPA?<br>(chart)                                 | Ap    |       |    | AC Biotechnics plant  | Ma    | y 30  | 17 | EC tightens the trade screws: methanol,                                    |       | . '  | JE        |
| Other views: EPA needs R&D money now to avoid waste later. William Drayton   | Chemical majors join push for more<br>R&D funding                             | I Ap  | r 11  |    | - EPA's health review: A coming ban   | 1     |       | 40 | and film subject to new tariffs (table) .                                  | Jan   | 25   | 17        |
| Drayton Apr 25 3 Ethyl Silicate — Stautter plans unit at compension from Dutice Place 1. Apr 4 16 ers is still "unfair". June 6 House approves an increase in FPA's budget   | Other views: EPA needs R&D money  | 1     |       |    | Ethyl Ether — Prices N  | Jui   |       |    | CDF Chimie's Cartalas says the   |       |      |           |
| FPA's hudget N May 30 40 n-Ethylaniline — First Chemical produc-   | House approves an increase in   | 1     |       |    | Weston Mich.  | AD.   | r 4   | 16 | ers is still "unfair"  | Jur   | ne 6 | 16        |
| EPA funding gets a boost June 6 14 ing n-ethylanlline at Pascagoule, Miss. R Apr 11 23 break on natural gas rates from   | EPA's budget N  | Ma Ma |       |    | ing n-ethylaniline — First Chemical produc<br>ing n-ethylaniline at Pascagoula, Miss. F | Ap    | r 11  | 23 | break on natural gas rates from  | 1     |      |           |

|   |          |               |          |   |        |      |       | 0-1   | F-L 0   |       |    |         |
|---|----------|---------------|----------|---|--------|------|-------|---|---------|-------|----|---------|
| Gaz de France N   | June     |               | 20       | Farm Merket   |        |      |       | Carbon-fiber facility planned by Enka N<br>Carbon fibers: France reshuffles proj- | Feb 2   | .9    | 16 |         |
| Industrial gases heat up in Europe International forecast: A business pick-   | Mar      | 21            | 66       | Cetus and Grace joint venture for bio-<br>engineered farm products: 'Possibly     |        |      |       | ects  | Apr 1   | 18    | 28 |         |
| up for non-U.S. companies (charts &   |          |               |          | the largest' bioventure   | June 2 | 20   | 15    | DSM and Toyobo will develop super-<br>strength polyethylene fiber N               | Mar 2   | 24    | 20 |         |
| tables)   | Jan      | 25            | 64       | Herbicides follow the current trend to low-till farming (table)                   | May    | 0    | 12    | EPA sets final emission rules for fiber   | Mai 2   | 21    | 20 |         |
| Lead-free gas: Unleaded gasoline ad-  | May      | 9             | 25       | "Organic" farming research bid sparks   | rviety | 9    | 12    | plants N  |         | 18    | 52 |         |
| vances in Europe N<br>Europe forms up for lead-in-gasoline                    |          |               |          | a blast from FIN  | June 2 | 27   | 16    | Fibers had a good first quarter Forecast: an upbeat forecast from                 | Mar 2   | 28    | 12 |         |
| rules   | May      | 30            | 16       | Fatty Acids   |        |      |       | Econoviews International N  | Feb     | 1     | 25 |         |
| Controversy on lead-free gasoline . N<br>More capacity for an octane booster: | June     | 0             | 18       | Emery Industries' fatty-acid expansion  |        |      |       | France: good year for synthetic fibers N  | Apr 2   | 25    | 25 |         |
| MTBE plant in U.KN  | June     | 13            | 20       | onstream at Cincinnati, O N   | Mar :  | 28   | 9     | Graphite fibers: Hercules' strategy — full speed ahead                            | Feb 2   | 20    | 5  |         |
| EC softens its stand on lead-free   |          | 0.7           | 00       | Prices N Feb 8-24, N Feb 29-23, N Apr<br>25-57, N May 9-60, N                     | June : | 20   | 60    | Great Britain: fibers performance -   |         |       |    |         |
| gasoline  | June     | 21            | 90       | The prospects are mixed for tall oil  | Mar    | 7    | 20    | good but not great  | June    | 6     | 18 |         |
| nanza for Europe's petrochemical  |          |               |          |   |        |      |       | Great Britain: man-made fiber produc-<br>tion N                                   | Mar     | 14    | 28 |         |
| makers (chart)  | Jan      | 25            | 16       | AC Biotechnics donating laboratory fer-   |        |      |       | Great Britain: synthetic fibers recovery  | TVI CLI |       |    |         |
| LPG from Algeria eyed N<br>OECD agreement on hazardous waste                  | Jan      | 18            | 20       | mentation systems to six colleges   |        |      |       | continues   | Jan     | 4     | 16 | i       |
| shipmentN   | Mar      | 14            | 28       | and universities N  | June   | 6    | 25    | Sacramento, Calif. in the works N   | June :  | 20    | 50 | ,       |
| Petrochemical business improvement:   |          |               |          | Continuous fermentation: There's new<br>life in continuous fermentation           | Feb    | 22   | 42    | ICI opens fiber research center N   |         | 11    | 24 |         |
| Signs of a peak in Europe's recov-  | Feb      | 1             | 20       | me in continuous remonation   | . 00   | -    | 76    | Japanese fibers performance: some-<br>what better N                               | home    |       | 40 |         |
| Petrochemical business recovery con-  |          |               |          | Fertilizer Institute  |        |      |       | what better   | June    | 6     | 18 | ,       |
| tinues  | Apr      | 11            | 24       | Annual meeting: A fertilizer forecast<br>high as an elephant's eye (chart)        | Feb    | 22   | 10    | the new year  | Mar     |       | 65 |         |
| Petrochemical shutdowns likely N<br>Polypropylene: alleged European price     | June     | 20            | 50       | Another shipper/railroad brawl  |        | 15   | 14    | Noncellulosics operating rate rises N   |         | 15    | 35 | 2       |
| fixingR   | June     | 20            | 23       |   |        |      |       | Ordered polymer fiber Polyesters see Polyester                                    | Apr     | 11    | 30 | ,       |
| Potash: World potash is moving again  |          |               | 00       | Algae could haive the cost of nitrogen  |        |      |       | Polyesters see Polyester<br>Polypropylene see Polypropylene                       |         |       |    |         |
| (chart). Research Corporation Trust: the U.S.                                 | Mar      | 14            | 36       | fertilizer N  | Apr    | 11   | 30    | Societe Nationale de l'Amiante to pro-<br>duce 'safe' asbestos fiber N            | Feb     | 15    | 33 |         |
| and U.K. join to spur European tech-  |          |               |          | Allied to sell liquid fertilizer business to                                      |        |      | ^     | Synthetic fiber shipments gain ground . N   |         | 23    | 25 |         |
| nology N  | June     |               | 25       | AAC Holdings N<br>Beker Industries' Erol Y. Beker, presi-                         | Jan    | 4    | 9     | Time-release herbicides: fluridone-con-   |         |       |    |         |
| Research-fund crisis  Europe see also individual countries                    | June     | 3 20          | 20       | dent and COO: The other Beker is  |        |      |       | taining polycaprolactone fibers N   |         | 23    | 32 |         |
| Europe due alle marriada desimile   |          |               |          | now COO at Beker  | Feb    | 1    | 34    |   | May     | 23    | 2. | ,       |
| Exports   |          |               |          | CdF Chimie holds low cards, bets high.<br>Chevron Chemical scaling down phos-     | Apr    | 18   | 30    | Abroad: sunshine and clouds — View-   |         |       |    |         |
| Balance of trade  A big trade setback for U.S. produc-                        |          |               |          | phate fertilizer project near Rock  |        |      |       | point   | Jan     | 25    |    | 3       |
| ers (tables)  | Feb      | 29            | 24       | Springs, Wyo.   | Feb    | 15   | 9     | Allied's capital-improvements pro-  |         |       |    |         |
| Bullish producers are rebuilding -  | Fab      |               | 40       | Phosphate fertilizer project will pro-<br>ceed N May 9-11,                        | May    | 16   | 24    | gram includes four fiber projects. N<br>Ashland Oil: Building a business on       | Apr     | 18    |    | 9       |
| but with restraint (chart & table)  | Feb      |               | 10       | Esmark's Estech up for sale: leveraged  |        |      |       | small business  | Apr     | 11    | 2  | 6       |
| Soaring imports shrink the surplus in   | -        |               |          | buyout possible   | Feb    | 29   | 9     | — Letter  | Apr     | 25    |    | 5       |
| chemical trade (chart)  | Juni     | e 20          | 14       | Kohlberg, Kravis & Roberts makes<br>acquisition offer for Esmark, in-             |        |      |       | Avtex steps out in style with specialty<br>fibers                                 | May     | 16    | 5  | 2       |
| Chemical trade squabbles: The indus-<br>try is divided over protectionism     |          |               |          | cluding Norton Simon and Es-  |        |      |       | Biotech firms scramble for new ways   | ividy   | 10    |    | -       |
| (charts)  | Mar      | 28            | 34       | techN   | May    | 9    | 11    | to raise cash   | May     | 23    |    | 9       |
| Chemical warfare: new rules on ex-  |          |               |          | Esmark leveraged buyout puts Es-<br>tech buyout on hold N                         | May    | 16   | 11    | Biotechnology report from OTA: To en-<br>sure biotech's future — Viewpoint        | Feb     | 1     |    | 3       |
| ports to Iran and Iraq to counter chemical warfare                            | Anr      | 11            | 58       | tech buyout on hold N European fertilizer dispute                                 | inay   | ,,,  |       | The tenuous U.S. lead in biotechnol-  | 1 00    |       |    |         |
| Dumping see Imports   | right    | * *           | 50       | CdF Chimie's Cartalas says the com-   |        |      |       | ogy (chart)   | Feb     | 1     | 2  | 21      |
| East-West trade   |          | 00            | 40       | petition from Dutch producers is still "unfair"                                   | June   | 6    | 16    | Biotechnology: Why Wall Street wants<br>more biotechnology data                   | Mar     | 7     | 2  | 22      |
| U.SSoviet trade: picking up again . N<br>EC tightens the trade screws: meth-  | May      | y 30          | 18       | French fertilizer producers offered a   | 00110  |      | 10    | CdF Chimie holds low cards, bets high   | Apr     | 18    | 3  | 30      |
| anol, VAM, styrene, and PE sheet  |          |               |          | break on natural gas rates from   |        | 40   | 00    | Canada's Nova shines, but less brightly   | June    | 27    | 8  | 38      |
| and film subject to new tariffs (table)                                       | Jan      | 25            | 17       | Gaz de France   | June   | 13   | 20    | Capital spending, flat for four years, is taking off (charts & table)             | May     | 16    | 1  | 12      |
| Export trading companies. Now banks<br>are selling chemicals (table)          | tur      | e 27          | 92       | phant's eye: FI annual meeting  |        |      |       | Capital spending in the U.K. up N   | Feb     | 29    | 1  | 16      |
| Fertilizers lose ground in foreign trade . N                                  | Ma       | y 16          | 51       | (chart)   | Feb    | 22   | 10    | Capital spending: lifting the lid on capi-  |         |       |    |         |
| Fibers: trade balance worsening N   | Ma       | y 23          | 25       | Fertilizer movement maintains momen-<br>tumbut lose ground in foreign             |        |      |       | tal spending N<br>Capital spending: Now, more money for                           | Mar     | 14    | 1  | 11      |
| Forecast 1984: The gains for chemi-<br>cals will continue (charts & table)    | Jan      | 4             | 30       | tradeN  | May    | 16   | 51    | modernization — CW annual survey  |         |       |    |         |
| France's Esso Chimie's sales and earn-  | Udil     |               | 30       | Gardinier wins a gypsum dump: Florida   |        |      |       | (tables)  | Jan     | 11    | 2  | 20      |
| ings: exports are the key to profits . N                                      | Ma       | r 21          | 20       | compromise plan approves a second<br>site   | June   | 9 20 | 18    | Capital spending: A prudent boost in<br>spending — Viewpoint                      | Jan     | 11    |    | 3       |
| Generalized System of Preferences:<br>Trade groups propose more reforms       |          |               |          | Germany's Hoechst backs away from   |        |      |       | spending — Viewpoint<br>Celanese Mexicana: How Celanese                           |         |       |    |         |
| for GSPN  | Fet      | 15            | 48       | fertilizersN  | Apr    | 25   | 25    | Mexicana has beaten the odds  | May     | / 16  |    | 47      |
| Great Britain: A good first quarter -   |          |               | 00       | International market outlook: FI meet-<br>ing                                     | June   | e 20 | 60    | ChemDesign: 'Buy American' — firm<br>stresses reprographic chemicals              | Mar     | 21    |    | 14      |
| CIA survey  | ма       | y 16          | 29       | Israel Chemicals Ltd.: A bold expansion   |        |      |       | Chemed refinances to improve its bal-   | 1010    |       |    |         |
| portsN  | Ma       | r 14          | 28       | policy abroad pays off for ICL  | Feb    | 8    | 21    | ance sheet  | Jan     | 4     |    | 9       |
| International forecast: A business pick-                                      |          |               |          | Israel's fertilizer industry to get boost from rail line N                        | May    | 30   | 18    | Chemical industry leading indicator<br>(chart & table) Feb 1-18, Mar 7-18,        |         |       |    |         |
| up for non-U.S. companies (charts & tables)                                   | Jar      | 25            | 64       | Jacobs Engineering licenses Norsk   |        |      |       | Apr 4-20, May 2-40,   | June    | e 6   |    | 5       |
| ITA's Basic Industries Sector program   | -        |               | -        | Hydro Fertilizers' processes N<br>Marketing co-ops: Farmland Industries           | Mar    | 7    | 30    | Chemical makers' books take on a<br>healthier note: debt-to-equity ratios         |         |       |    |         |
| will inform the chemical industry on trade                                    | 140      | y 16          | 68       | and the Missouri Farmers Assn. con-   |        |      |       | for 16 companies (table)  | Mar     | r 21  |    | 70      |
| Israel gears up for bromine exports N   | Ma       | y 10          | 20       | sidering a merger as a means of   |        | - 40 |       | CMA annual meeting (112th) consen-  |         |       |    |         |
| Latin America — Chemical exports: At  |          | , -           |          | restoring their financial stability N<br>Movement posts new gains N               |        | e 13 |       | sus: 'Enjoy 1984' Chemical Week Financial Reports                                 | Jun     | e 13  |    | 16      |
| stake in the international banking  |          | 00            | 50       | Nitrogen fertilizers: a bleak outlook N   | Jun    |      |       | Chemical industry leaders, 4th qtr.   |         |       |    |         |
| rescue (charts)  Pesticides: export growthN                                   | Ju<br>Ja | ne 20<br>n 18 | 53<br>28 | "Organic" farming research bid sparks   | her    | 0.00 | 7 16  | '83 (tables)  | Feb     | 15    |    | 30      |
| Phosphates and potash: FI annual  |          |               |          | a blast from FI N<br>Prices N   | Jan    | e 27 |       | Process industries, 4th qtr. and 1983 (charts & tables)                           | Mai     | r 7   |    | 26      |
| meeting   | Fe       | b 22          | 10       | Shipments post a gain N   | Apr    | 25   | 5 57  | Chemical industry leaders, 1983 an-   | 14162   |       |    |         |
| Potash: export surge bolsters the po-<br>tash market                          | Fe       | b 15          | 25       | USDA forecasts fertilizer growth N<br>U.S. fertilizer demand soars N              | Ma     |      |       | nual (charts & tables)  | Apr     | 25    |    | 58      |
| Soda ash bounds ahead N   | Ma       | ar 28         | 42       | U.S. fertilizer demand soars N<br>Wycon Chemical plans fertilizer expan-          | Jan    | 1 10 | 20    | Chemical industry leaders, 1st qtr.<br>'84 (tables)                               | Ma      | y 23  | 3  | 28      |
| Soda ash exports set a record in 1983   |          | - 00          | 00       | sions R Fertilizers see also individual fertilizers,                              | Jan    | 1 18 | B 18  | Process industries, 1st qtr. '84 (charts  |         | ,     |    |         |
| Swiss exports on the rise N   | Fe       | b 29          | 16       | Fertilizers see also individual fertilizers,<br>Ammonia; Nitrogen; Phosphate etc. |        |      |       | & tables) CW's leading indicator: Halcyon days                                    | Ma      | y 30  | )  | 28      |
| Tall oil: the prospects are mixed; cheap                                      |          |               |          | Animonia, retrogen, Phospilate Ctc.   |        |      |       | ahead for chemical companies N  | Jan     | 1 4   | 1  | 9       |
| gum rosin from Portugal and China   | М        | ar 7          | 20       | Fiber Optics  |        |      |       | Chlor-alkali: Squeezing earnings from a   |         |       |    |         |
| West German chemical firms display<br>new strength (charts & table)           | Ju       | ine 13        | 28       | Chemical vapor deposition: AAAS sym-<br>posium                                    | lur    | ne i | 6 34  | low-growth business (charts & table) .  — Letter                                  | Fet     |       |    | 26<br>5 |
| non onengui (enano a nano)  |          |               |          | Patent squabble: Corning claims patent  |        |      |       | Commerce Dept. see a sunshiny 1984  | Apr     |       |    | 3       |
| Extraction  |          |               |          | infringement by Sumitomo Electric   | Ap     | r 1  | 8 17  | for chemicalsN  | Feb     | b 29  | 9  | 5       |
| GE develops continuous metal-extrac-<br>tion process". N                      | Ju       | ine 27        | 96       | Fibers  |        |      |       | Dividends: A skill test for management  — Viewpoint                               | .lar    | 1 18  | 3  | 3       |
| Separation Research Program at the  | 1        |               |          | Airline safety's boost for fibers: FAA  |        |      |       | Dividends: Wall Street sees dividend  |         |       |    |         |
| University of Texas: New ways to<br>bring about cost-effective separation     | 3        |               |          | calls for fire-blocking seat fabrics  |        | b 1  | 5 13  | hikes ahead (table)   | Jar     | 18    | 3  | 30      |
| (table)   |          | lay 16        | 34       | Allied's capital-improvements program<br>includes four fiber projects N           | Ap     | r 1  | 8 9   | Dow's capital spending shrinks, R&D budgets climb                                 | Ma      | ar 2  | 1  | 9       |
|   |          |               | -        | Aramid fiber: Du Pont and Toray to  | )      |      |       | Du Pont sells a can-coating business,   |         |       |    |         |
| _   |          |               |          | form joint venture  | Ma     | ay 2 | 3 18  | trims its debt N  | Jan     | n 1   | 1  | 9       |
| F   |          |               |          | Armstrong Rubber to use Kevlar fiber in passenger tires                           | Ju     | ne   | 6 9   | Earnings: A bullish outlook for chemical<br>profits — CW survey (chart & table).  | Jur     | ne 1: | 3  | 26      |
| -   |          |               |          | Asbestos fiber: Canada's SNA to pro-  |        |      |       | Economic recovery: Bullish producers  |         |       |    |         |
| Farm Cooperatives — Farmland Indus  |          |               |          | duce a "safe" phosphate-treated<br>asbestos fiber                                 | En     | b 2  | 2 14  | are rebuilding — but with restraint   | Ea      | b     | 1  | 10      |
| tries and the Missouri Farmers Assn   | i.       |               |          | Avtex's play in PP staple   | Ma     | ay 3 | 30 13 | (chart & table)   | Fe      | -     |    | 10      |
| considering a merger as a means of  | f        |               |          | Avtex steps out in style with specialty   | 1      |      |       | Electric utilities seeking government<br>help from financial debt created by      |         |       |    |         |
| restoring their financial stability   | 1 1      | une 13        | 9        | fibers  | M      | ay 1 | 16 52 | building nuclear power plants N   | Ma      | ly :  | 2  | 44      |
|   |          |               |          |   |        |      |       |   |         |       |    |         |

| DOE proposes a utility aid package N<br>Energy futures: easier terms for trading  | May            |       | 68             | President's Private Sector Survey on<br>Cost Control: Strong medicine for                              |                |           |          | FAA calls for fire-blocking seat fabrics:<br>polyurethane-foam cushion   | Feb 1      | 15    | 13   |
|---|----------------|-------|----------------|--|----------------|-----------|----------|--|------------|-------|------|
| in propane futures  | May            | 16    | 51             | Raychem tries to get the magic back  | Jan 2<br>Jan 2 | 5         | 14<br>62 | Firestone Foam Products to be sold to Foam Acquisition   | May        | 9     | 22   |
| Brains and cash for EPA — View-<br>point  | Feb            | 1     | 3              | Reichhold Chemicals' rating raised by<br>S&P: a bouquet for Reichhold's new                            |                |           |          | Flexible foams profit from urethane<br>surge   | Apr 1      |       | 13   |
| EPA needs good science, not an in-  | Apr            | 4     | 3              | management   | Apr 1          | 1         | 11       | Food packaging: For plastics, new ac-<br>tion in food packaging (chart)  | Jan 1      |       | 25   |
| flated budget — Viewpoint   | - day          | 4     |                | ships can interrelate N R&D spending: Closeup of research  | Mar 2          | 28        | 33       | Hair-care mousses: a boost for chemi-<br>cals  | Mar 2      |       | 71   |
| money now to avoid waste later .<br>William Drayton   | Apr            | 25    | 3              | and development. Another forward<br>year for CPI spending — McGraw-                                    |                |           |          | Witco's big win in foam patent suit may<br>affect makers and users of rigid  | widt 2     |       |      |
| A research-maining budget for EPA?<br>(chart)   | Apr            | 4     | 27             | Hill survey (tables)   | June           | 6         | 30       | polyurethane foam  | June       | 6     | 11   |
| Chemical majors join push for more<br>EPA R&D funding N   | Apr            | 11    | 58             | R&D spending: Industry increasing spending   | Jan            | 4         | 44       | Witco sells domestic Isofoam urethane<br>foam business to Plastics Manage-   |            |       |      |
| House approves an increase in<br>EPA's budget   | May            | 30    | 40             | Restructuring: Basics and plastics can   | May :          | 23        | 3        | ment   | Feb        | 15    | 16   |
| EPA funding gets a boost<br>Europe's research-fund crisis   | June           | 6     | 14             | Restructuring and the need for spe-  | May            |           | 3        | Food<br>EDB substitutes: FDA wants to give the   |            |       |      |
| Executive compensation: With chemi-   | Julie          | 20    | 20             | Risk assessors: How processors assess  | Feb            |           | 29       | nod to irradiated food as a possible EDB alternative   | Feb        | 22    | 50   |
| cal earnings up, salaries and bonuses<br>rise — CW's annual compensation  |                |       |                | Sales and earnings<br>Fourth-quarter '83: Chemicals re-  |                |           | 20       | EDB substitutes: Monsanto will urge<br>irradiating with electron beams;  |            |       | 00   |
| survey (charts & tables)  Export trading companies. Now banks   | May            | 9     | 36             | bound from recession lows (table).   | Jan            | 25        | 10       | BUC's Airco plugging carbon diox-  | Fab        | 00    | 0    |
| are selling chemicals (table)   | June           | 27    | 92             | Fourth quarter '83: CEOs smile at company gains (table)  | Feb            | 1         | 11       | ide N<br>Irradiation: EDB alternatives explored  | Feb        |       | 9    |
| in Reagan's budget (table)<br>Federal budget: More money for agri-  | Feb            | 8     | 10             | Fourth quarter: A triumphant fourth<br>quarter (table)   | Feb            | 8         | 11       | at Congressional hearings N<br>Irradiation: Some rays of hope for ir-  | May        |       | 68   |
| cultural biotech research N<br>House deletes biotech, guayule rub-  | June           | 6     | 40             | First-quarter results: early-reporting companies N   | Apr            | 18        | 9        | radiating food (chart) Massachusetts rules on EDB levels in  | Apr        |       | 33   |
| ber funds   | June           | 13    | 40             | First-guarter — A consensus: 1984  | Apr            |           | 15       | ready-to-eat foods   | May        | 23    | 17   |
| ficits Viewpoint  | Feb            | 8     | 3              | First-quarter: Chemical momentum   | May            | 2         | 10       | P&G getting poised for big new mar-<br>kets  | June       | 27    | 12   |
| Federal budget: Reagan's budget calls for a Superfund extension N   | Feb            | 1     | 42             | First-quarter: Profits retake the high   |                |           |          | P&G recalls EDB-laced muffin mix from  |            |       | 16   |
| Forecast 1984: The gains for chemi-<br>cals will continue (charts & table)  | Jan            | 4     | 30             | Sales and earnings for individual com-   | May            | 9         | 12       | California stores  | Feb        | 8     | 10   |
| Foreign investment in U.S. chemical   | June           | 13    | 40             | panies see under company name in<br>Company Index  |                |           |          | & Dwight asking FDA to reconsider<br>rules covering sodium bicarbonate   | May        | 23    | 12   |
| France's CDF Chimie gains some ground N   | June           |       | 18             | Snia pays first dividend in nine years . N<br>Spain's ERT: No easy way out N                           | May<br>Jan     | 16<br>18  | 29<br>20 | Food Additives   |            |       |      |
| France slows capital investment in chemicals  | Mar            |       | 28             | Standard Oil (Ind.) stock-buying move<br>starts up the rumor mills N                                   | May            |           | 9        | EDB alternatives explored at Congressional hearings N  | Мау        | 16    | 68   |
| French chemical profits disappoint N  | Feb            |       | 18             | Stock splits at Allied and Monsanto N<br>Stocks: Four companies buy their own                          | May            | 9         | 11       | EDB substitutes: FDA wants to give the<br>nod to irradiated foods as a possible  | ,          |       |      |
| Fuller, H.B. first-quarter report: rising sales and two write-offs — Multi-   |                |       |                | stock and debentures N   | May            | 2         | 9        | EDB alternative N EDB substitutes: Monsanto will urge  | Feb        | 22    | 50   |
| Clean business and loss of assets in<br>Lebanese war zone   | Apr            | 11    | 11             | Union Explosivos Rio Tinto's loan re-<br>payment plan is okayed N                                      | Mar            | 28        | 22       | irradiating with electron beams;   |            |       |      |
| GAF's plan; record-high profits and a   | May            | 16    |                | Uniroyal: a long-awaited payout for owners. N  | Apr            | 25        | 11       | BOC's Airco plugging carbon dioxide  | Feb        | 22    | 9    |
| big write-off N<br>Georgia-Pacific reevaluating its chemi-  | Jan            | 11    | 9              | Upjohn's high-level shift could result in a trend away from chemicals N                                | June           | 27        | 7        | IGI Biotechnology develops gurn arabic<br>alternative, Poly-LevuLanR   | Apr        | 11    | 23   |
| cals strategy   | Mar            | 28    | 9              | Valspar's acquisition of Mobil's indus-<br>trial-coatings business N                                   | May            | 23        | 4        | Prizer introduces salt substitute, potas-<br>sium benzoate   | Mar        | 14    | 24   |
| ing by 20%  |                | 23    | 4              | Valspar's bid for greater growth<br>(chart)  | May            |           | 12       | Food & Drug Administration   |            |       |      |
| Great Lakes Chemical. An aggressive   | Apr            |       |                | Venture-capital: It takes more than  |                |           | 3        | Cancer risk assessment challenged by<br>ACSH report  | May        | , 9   | 26   |
| growth plan pays off (charts) Interest rates: prime-rate hike dampens   |                | 21    |                | money — Viewpoint<br>Making new ventures go. A bankroll  | Apr            | 11        | 3        | Creating a new Office of Science N   | Apr        | 4     | 40   |
| few hopes<br>International forecast: A business pick-   | Apr            | 18    | 13             | and a hi-tech idea aren't enough<br>(chart)  | Apr            | 11        | 44       | ibuprofen's contested road over the<br>counter: a challenge to FDA's say on  | homi       | - 0   | 40   |
| up for non-U.S. companies (charts & tables)   | Jan            | 25    | 64             | West German chemical firms display<br>new strength (charts & table)                                    | June           | 13        | 28       | Irradiated food may get the nod as a   |            | e 6   | 12   |
| Investor relations. Courting with more finesse (tables)   |                | 15    |                | new strength (charts & table) Finland — Neste's acquisition of Unifos Kemi approved by Swedish govern- |                |           |          | possible EDB alternative N<br>Medical ads: asking the media to help  |            | 22    | 50   |
| Investor relations: Telling it to Wall<br>Street — Viewpoint  |                | 15    |                | ment N<br>Fire Protection — PPG introduces fire-   | Арг            | 4         | 18       | fight false medical ads  | June       | e 6   | 40   |
| Israel Chemicals Ltd.: A bold expansion   |                |       |                | protective coating   | May            | 9         | 33       | U.K. drug-approving record N<br>Prescription drugs: reactions to direct  | Apr        | 11    | 58   |
| policy abroad pays off for ICL. Italy: recovery is under way  | Feb            |       |                | Fish — Aguanautics develops protein-   |                |           |          | advertising  | Apr<br>Feb | 25    |      |
| Japan's chemicals: Not well but better<br>(charts)  | Apr            | 11    | 51             | based chemical coating for bass lures:<br>fish-feeding stimulant                                       | Jun            | e 13      | 17       | Young, Dr. Frank E. is new commis-<br>sioner   |            | y 16  |      |
| Kaiser's game plan to get Harshaw<br>back in shape  | Feb            | 8     | 3 22           | Flame Retardants   |                |           |          | FDA regulations, standards, etc. see   | May        | , 10  | 00   |
| Koppers' high-tech hunt: MotorTech<br>joint venture; joint venture with DNA   |                |       |                | Airline safety's boost for fibers: FAA calls for fire-blocking seat fabrics                            | Feb            | 15        | 13       | under specific products  |            |       |      |
| Plants Technology Latin America: Chemical exports — at  | Fet            | 29    | 9 10           | Alumina chemicals: Looking for an up-  |                | 23        |          | Forests Forest biotechnology symposium: Trees  |            |       |      |
| stake in the international banking  | tur            | ie 20 | 0 53           | Ethyl expanding flame retardants ca-   |                |           |          | may be cultivated for their chemi-<br>calsbut it also may prove costly. N  | Jun        | ne 20 | 26   |
| rescue (charts)  Loctite: Can Loctite get back on track?  |                |       |                | pacity at Sayreville, N.J R<br>M&T Chemicals becomes distributor                                       | Apr            | 11        | 23       | Spraying herbicides in U.S. forests<br>banned: opponents predict a mas-  |            |       |      |
| (charts) Mexico's bid for foreign cash  | Fet            | 1 1   |                | for Israel's Makhteshim Chemical<br>Works' brominated fire tamers R                                    | Ma             | 7         | 16       | sive economic upheaval   | May        | y 2   | 15   |
| Monsanto's stock, now at \$94/share, may be split   | Ma             | r 2   | 8 9            | PPG will license brominated flame re-<br>tardant technology from Great Lakes                           |                |           |          | Formaldehyde<br>CPSC formaldehyde hazards panel  |            |       |      |
| Monthly business report (charts) Jan<br>18-19, Feb 15-17, Mar 14-26, Apr  |                |       |                | Chemical   |                | r 14      |          | seeks scientists N Electrolytic route to ethylene glycol:  | Ma         | r 7   | 40   |
| 18-18, May 16-5,  |                | ne 1: | 3 5            | Why the EDB health flap may hurt<br>bromine (chart)  |                | 15        |          | electrohydrodimerization of formal-  |            |       |      |
| Jan 11-26, Feb 8-26, Mar 14-44,<br>Apr 11-42, May 16-63,  |                | ne 2  | 0 48           | Flavors & Flavoring — Grace and Syner-   | 1 01           | , ,       | , ,,     | dehyde   |            | b 22  | -    |
| Natural gas: A clearinghouse for natural  |                | ne 2  |                | gen sign agreement to develop micro-<br>organisms that make flavors and fra-                           | 140            |           | 2 22     | under TSCA   |            | y 23  | 3 40 |
| New plant and equipment prices climb  |                |       | 8 9            | grances N<br>Florida Institute of Phosphate Research   | Ma             | у 2       | 2 37     | ess makes EG from methanol and<br>formaldehyde; Electrosynthesis proc-   |            |       |      |
| New ventures: Making new ventures   | Fe             | D     | 8 9            | <ul> <li>Phosphogypsum wastes: researchers look at use as a road base and a</li> </ul>                 |                |           |          | ess makes EG by the electrohydro-<br>dimerization of formaldehyde  | Ma         | ar 7  | 7 35 |
| go. A bankroll and hi-tech idea aren't<br>enough (chart)  | Ap             | r 1   | 1 44           | construction material  | Ap             | 2!        |          | Foam insulation see <b>insulation</b><br>Formaldehyde's run for life on the 'fast  |            |       | -    |
| 1984: another year of gainsand time for new resolves —  |                |       |                | ical causes of infertility   | Fe             | D 15      | 5 26     | track' (table)   | Ma         | ay 30 | 10   |
| Viewpoints OxyChem: There's new life in Oxy-  | Jai            | n     | 4 3            | ity for Genesolv and Genetron fluoro-<br>carbon products at Baton Rouge, La. R                         | .laı           | 1 1       | B 18     | Urea-formaldehyde see Urea-Formal-   |            | ne 13 | 3 24 |
| chem PPG Industries' strategic maneuvering:   | Jai            | n 2   | 5 12           | Fluoroelastomers — Montedison's U.S.   | odi            | . 11      | - 10     | dehyde   |            |       |      |
| A warm welcome on Wall Street   | Ma             |       | 7 14<br>3 12   | sales rep, Cambo Inc., will pitch elas-<br>tomers to Detroit   | Ja             | n 1       | 8 16     | Foundation on Economic Trends Genetic frost-resistance test may be   | ,          |       |      |
|   | le u           |       |                |  |                |           |          | blocked by environmentalists N   | Ap         | or 25 | 5 76 |
| PPG: On a new starting line Pension accounting in dispute: FASB's   | Ju             | ne 1  | 5 12           | Foam   |                |           |          | More oil on the r-DNA field-testing  | 1          |       |      |
| Pension accounting in dispute: FASB's<br>proposal called "conceptually un<br>sound"   | Ja             | ne i  |                | Ammonia from wet air by use of silica  | Fo             | h         | 1 30     | More oil on the r-DNA field-testing<br>flames  | Jur        | ne 13 |      |
| Pension accounting in dispute: FASB's<br>proposal called "conceptually un<br>sound"<br>Pension funds: Keeping the promises<br>cutting the costs (chart & table) | Ja<br>, Ma     |       | 8 13           | Ammonia from wet air by use of silica<br>substrates N<br>Arco launches new expandable plastic.         | Fe             |           |          | More oil on the r-DNA field-testing<br>flames.<br>Let's keep RAC in charge — Viewpoint<br>Regulatory chaos looms for biotechnol- | Jur<br>Fel |       |      |
| Pension accounting in dispute: FASB's<br>proposal called "conceptually un<br>sound"<br>Pension funds: Keeping the promises                                      | Ja<br>Ja<br>Ma | n 1   | 18 13<br>30 32 | Ammonia from wet air by use of silica<br>substrates N  | Ma             | b<br>ay 3 | 0 9      | More oil on the r-DNA field-testing<br>flames  | Jur<br>Fel | ne 13 | 9 3  |

| Fragrances — Grace and Synergen sign<br>agreement to develop microorganisms  |              | •        |          | Air Products Ireland formed to market industrial gases to customers near Dublin.   | Feb 2              | ,                   | 10                   | Genetic Engineering Agrigenetics funds Australian research   | Apr. 2                                  | E                      | 20                         |
|--|--------------|----------|----------|--|--------------------|---------------------|----------------------|--|---|------------------------|----------------------------|
| that make flavors and fragrances N   | May          | 2        | 37       | Atmospheric gas output climbs N  | Feb 15             |                     | 18<br>25             | on genetic engineering of corn N<br>Amgen joint venture with Kirin Brewery   | Apr 2                                   | 0                      | 30                         |
| France   |              |          |          | Atmospheric gases: Sales are up, but   |                    |                     |                      | to make and market a synthetic hor-  |   |                        |                            |
| Atochem will consolidate production units  | Apr          | 4        | 18       | margins are thin for air gases.  BOC Group air-separation facility at  | Feb 2              | 4                   | 24                   | mone for boosting red blood cells<br>May 23-9,   | May 2                                   | 3                      | 35                         |
| Capital investment in chemicals slow-  |              |          |          | Kittery, Me. due onstream N<br>Distributed system of gas chroma-   | Feb 1              | 5                   | 9                    | Amgen makes genetically engineered   |   |                        |                            |
| ed   |              | 14       | 28<br>28 | tography N   | June 2             | 0                   | 26                   | hormone to counter anemia N<br>Assn. of Biotechnology Companies,   | Jan 1                                   | 1                      | 32                         |
| CDF Chimie gains some ground N   | June         | 6        | 18       | HYGAS/PEATGAS pilot plant: DOE   |                    |                     |                      | gene-splicing group, seeks faster pa-  | F-1- 0                                  |                        |                            |
| CdF Chimie holds low cards, bets high .<br>CdF Chimie plans cutbacks N   |              | 18<br>25 | 30<br>57 | transferring operation and manage-<br>ment to IGT  | Jan 2              | 5                   | 80                   | tent approval  | Feb 2                                   | 2                      | 50                         |
| CdF Chimie will build feedstack unit   |              | _        |          | Industrial gases: prices N Apr 11-38, . N  | Apr 1              |                     | 20                   | be protested by Genentech and  | Fab 0                                   |                        |                            |
| for Qatar project N Chemical profits disappoint N  | Mar<br>Feb 1 | 15       | 19<br>18 | Industrial gas production in 1983N<br>Industrial gases heat up in Europe   | Mar 2<br>Mar 2     | 1                   | 65<br>66             | Hoffman-La Roche N<br>BioTechnica signs pact with Monsanto   | Feb 2                                   | .9                     | 5                          |
| Compagnie des Vernis Valentine, paint-   |              |          |          | Landfill gas: Tapping the hidden treas-<br>ure in landfill gas   |                    | ^                   |                      | to develop a pesticide and with  |   |                        |                            |
| maker, acquired by ICI   | Apr 2        | 25       | 25       | Nerve gas: an enzyme may offer pro-  | June 2             | U                   | 28                   | H.J. Heinz to develop animal-feed products   | Apr 1                                   | 1                      | 23                         |
| producersN   | Feb 1        |          | 18       | tection from nerve gas   | Jan 2              | 5                   | 19                   | Blood-clotting protein: A wide-open field  |   |                        |                            |
| Electricity rates: an impasse N<br>Esso Chimle's sales and earnings: ex-   | June 1       | 13       | 20       | Nerve gas antidote may result from<br>Bio-Response contract  | Feb 2              | 9                   | 28                   | in the race for factor VIII<br>Leader in the factor VIII race: Genen-  | Jan 1                                   | 1                      | 22                         |
| ports are the key to profits N   | Mar 2        | 21       | 20       | Test facility to simulate liquid gas spills  |                    |                     |                      | tech uses r.DNA to make a blood.   |   |                        |                            |
| Fertilizer producers offered a break on<br>natural gas rates   | June 1       | 13       | 20       | to be built by EPA   | Mar 1              | 4                   | 58                   | clotting protein Calgene: Adding market savvy to a bio-  | May                                     | 9                      | 17                         |
| Fibers: good year for synthetic fibers N   | Apr 2        | 25       | 25       | plant for "super-tropical bleach," a   |                    |                     |                      | tech startup   | Jan 1                                   | 11                     | 13                         |
| Glass container technologies N<br>International forecast: A business pick-   | Mar 2        | 28       | 33       | decontaminant for mustard gas N<br>Westvaco will offer system to control   | Mar 1              | 4                   | 11                   | Cetus and Grace joint venture for bio-<br>engineered farm products: 'Possibly  |   |                        |                            |
| up for non-U.S. companies (charts &  |              |          |          | the harmful effect of corrosive gases  | Man 4              |                     | 40                   | the largest' bioventure  | June 2                                  | 20                     | 15                         |
| tables) Plastics: Words of caution on plastics   | Jan 2        | 25       | 64       | on electronic control devices N Gas see also Natural Gas and specific  | Mar 1              | 4                   | 46                   | Cholera vaccine: Univ. of Maryland re-<br>ports success of genetically engi-   |   |                        |                            |
| growthN  | June 2       | 20       | 50       | gas  |                    |                     |                      | neered vaccine   | Jan :                                   | 25                     | 19                         |
| Pricing agreement: chemical produc-<br>ers not happy   | Feb          | 8        | 17       |  |                    |                     |                      | Cooperbiomedical drug, alpha-1 anti-<br>tryosin for treating emphysema   |   |                        |                            |
| Rhone-Poulenc cuts phenol capacity N   | Feb          | 1        | 20       | Gasification   |                    |                     |                      | trypsin for treating emphysema, granted "orphan drug" status N   | Feb :                                   | 29                     | 28                         |
| Rhone-Poulenc plans lysine plants . N<br>Uranium Pechiney recovering minerals  | May          | 9        | 25       | Advanced-flash hydropyrolysis: testing<br>out a new gasification concept N   | Mar                | 7                   | 30                   | Fermentation: There's new life in con-<br>tinuous fermentation   | Feb :                                   | 22                     | 42                         |
| from clay-bearing ores N   | June '       | 13       | 34       | Burning coal to extract oil: new proc-   |                    |                     |                      | Field-tests of r-DNA products: environ-  |   |                        | -                          |
| Freight Rates  |              |          |          | ess, Total Resource Energy Extrac-<br>tion (TREE)  | Jan                | 4                   | 15                   | mentalists demand impact state-<br>ments   | Feb :                                   | 20                     | 35                         |
| Another shipper/railroad brawl: chemi-   |              |          |          | Eastman's acetic anhydride from coal   |                    |                     |                      | Genetic frost-resistance test may be   |   |                        |                            |
| cal makers cry foul to higher rates<br>and fewer choices of carrier  | Feb          | 15       | 14       | plant at Kingsport, Tenn. with Texaco<br>gasifiers and some processing wrin-   |                    |                     |                      | blocked by environmentalists N<br>Federal court stops an open-air DNA  | Apr                                     | 25                     | 76                         |
| Keep the rails competitive — View-   |              |          |          | kles (diagram)   |                    | 8                   | 34                   | experiment   | May                                     | 23                     | 40                         |
| point Ocean shippers get antitrust immunity  |              | 22       | 21       | - Letter HYGAS/PEATGAS pilot plant: DOE  | June 2             | 1.7                 | 5                    | More oil on the r-DNA field-testing flames   | June                                    | 13                     | 14                         |
|  | renda        | 1-4      | 21       | transferring operation and manage-   |                    |                     |                      | New effort to stop open-air r-DNA  |   |                        |                            |
| Brewster Phosphate will convert phos-  |              |          |          | ment to IGT  | Jan 2              | 25                  | 80                   | experiments N<br>Forest biotechnology symposium: Trees   | June                                    | 27                     | 102                        |
| phate rock dryers to coal-oil mix-   |              |          |          | for synfuels projects N  | Apr                | 11                  | 58                   | may be cultivated for their chemi-   |   |                        |                            |
| turesN   | Mar          | 7        | 30       | Synfuels legislation see Fuel<br>TRW's Beacon process: Making syn-   |                    |                     |                      | calsbut it also may prove costly. N  | June                                    | 20                     | 26                         |
| The rekindling of interest in fluidized<br>bed boilers: Solid Circulation Boiler   |              |          |          | gas from gasiliers' methaneN   | Jan                | 11                  | 32                   | Genentech's triple play: tests of gamma<br>interferon, a marketing deal, and a   |   |                        |                            |
| promises to burn cheap fuels effi-   | lumo         | 20       |          |  |                    |                     |                      | joint venture<br>Hilltop Lab Animals trying to breed   | Jan                                     | 4                      | 13                         |
| ciently (diagram)  | June         | 20       | 44       | Gasoline   |                    |                     |                      | genetically pure lab animals N   | June                                    | 6                      | 25                         |
| Canada's synfuels: A cautious phoe-  | C-6          | 00       | 40       | Additives<br>EDB see Ethviene Dibromide  |                    |                     |                      | How genetic engineers will customize<br>proteins   | Mar                                     | 21                     | 70                         |
| DOD needs synfuels for space-age   | Feb          | 22       | 40       | Methanol-TBA additive: four Missouri   |                    |                     |                      | Insulin: Canadian competition in human   | Mar                                     | 21                     | 79                         |
| tests: NRC report urges the de-  |              |          |          | gasoline distributors sue Arco<br>Chemical   | June :             | 27                  | 7                    | insulin  | Jan                                     | 4                      | 29                         |
| partment to build its own facility<br>(table)  | Jan          | 4        | 14       | Shell Oil launching octane improver,   |                    |                     |                      | Microorganisms boost the production  |   |                        |                            |
| Kellogg Rust and Westinghouse to   |              |          |          | PDP-5400 N<br>Canadian Parliament's subcommittee   | Apr                | 11                  | 38                   | of threonine   | Apr                                     | 11                     | 30                         |
| set up joint synfuels company N<br>Synthetic Fuels Corp.   | Feb          | 8        | 34       | on acid rain advocating phasing out  |                    |                     | _                    | 'Military' gene project to combat<br>dysentery stirs furor   | Feb                                     | 15                     | 12                         |
| Adopts a definitive schedule for   | lan          |          | 0        | of TEL by 1995 N<br>Ethanol see <b>Ethanol</b>   | June               | 13                  | 9                    | NIH's Recombinant DNA Committee to   | lon                                     | 10                     | 44                         |
| awarding contracts N<br>Funding decisions approach contro-   | Jan          | 11       | 9        | Gasohol makers are filling up for the  |                    |                     |                      | reevaluate its role  | Jan                                     | 18                     | 44                         |
| versy  | Feb          | 29       | 40       | long haul (table)<br>Lead-in-gas: Canada sets date for re-   | June               | 21                  | 8                    | down   | Feb                                     | 15                     | 48                         |
| Sohio, Phillips and Sun Shale Oil will<br>no longer seek loan or price guar-   |              |          |          | duced lead use N   | Jan                | 4                   | 16                   | point  | Feb                                     | 29                     | 3                          |
| anteesN  | Mar          | 7        | 40       | Lead-in-gas: EPA's proposed rule to<br>phase out leaded gasoline may   |                    |                     |                      | Regulatory chaos looms for biotech-  | Feb                                     | 20                     | 35                         |
| Readies price and loan supports for six synfuels projects  | Apr          | 11       | 58       | mean an earlier demise for Ethyl's   |                    | _                   | -                    | A call for comments on regulating  | rep                                     | 29                     | 33                         |
| Thompson, victor w. resigns N  | May          | 2        | 44       | antiknock business N<br>Lead-in-gas: EPA speeds up phase-out   | Mar                | 7                   | 9                    | biotechnology Plant genetics see Plant Genetics  | May                                     | 2                      | 44                         |
| Thomspon resigns: SFC has the<br>staggers  | May          | 9        | 19       | of leaded gasoline N Mar 7-40  | Mar                | 14                  | 16                   | T-cell growth factor: Who's ahead in   |   |                        |                            |
| SFC faces cuts in funding N  | May          | 23       | 40       | Lead-in-gas: Unleaded gasoline ad-<br>vances in Europe   | May                | 9                   | 25                   | T-cell growth factor: Who's ahead in the IL-2 race?  | Apr                                     | 18                     | 16                         |
| To the White House: Reconsider syn-<br>fuels cuts N  | June         | 6        | 40       | Europe forms up for lead-in-gasoline   |                    |                     |                      | Why Wall Street wants more biotech-<br>nology data   | Mar                                     | 7                      | 22                         |
| Fuel see also specific fuel, Coal; Natural   | -            | -        |          | rules Controversy on lead-free gasoline .N   | May                | 30<br>6             | 16<br>18             | Georgia Institute of Technology — Ther-  |   |                        |                            |
| Gas; Petroleum etc.  |              |          |          | More capacity for an octane booster:   |                    |                     |                      | moelectric generators: Winning more<br>watts from waste heat (diagram)   | June                                    | 6                      | 26                         |
| Fuel Cells   |              |          |          | MTBE plant in the U.K N<br>EC softens its stand on lead-free   | June               | 13                  | 20                   |  |   |                        |                            |
| Occidental Chemical will convert chlor-<br>alkali plant at Taft, La. to membrane   |              |          |          | gasoline N   | June               | 27                  | 90                   | Germany Chamical producers look forward to a   |   |                        |                            |
| cells A  | June         | 6        | 17       | Methanol as a fuel alternative to gaso-  | Mar                | 7                   | 12                   | Chemical producers look forward to a good year   | Feb                                     | 8                      | 17                         |
| Olin's chlorine plant at McIntosh, Ala.  |              |          |          | Methanol see also Methanol   | Mat                | -                   | 12                   | Deutsche Texaco route to secondary<br>butanol  | Jan                                     | 11                     | 32                         |
| will replace diaphragm colle with ion  |              | 18       | 37       | MTBE see Methyl-Tert-Butyl Ether   |                    |                     |                      | Hoechst backs away from fertilizers . N  | Apr                                     | 25                     | 25                         |
| will replace diaphragm cells with ion exchange membranes   | Apr          | 10       |          | Octane boosting: BTX vs oxygenates  — battle over lead substitutes   |                    |                     |                      | Hoechst expands in polyester film . N  | Mar                                     | 28                     | 42                         |
| exchange membranes N<br>Sweden: Billerud completes chlor-alkali  | Apr          | 10       |          |  |                    |                     |                      | International forecast: A business pick-   |   |                        |                            |
| exchange membranes   | Apr          | 22       | 20       | (chart)  | Mar                | 28                  | 27                   |  |   |                        | 64                         |
| exchange membranes N<br>Sweden: Billerud completes chlor-alkali<br>conversion to membrane cell out-<br>put N<br>Fumaric Acid — Prices N Jan 11-25, N   |              | 22       | 20<br>60 | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insul-   |                    |                     |                      | up for non-U.S. companies (charts & tables)  | Jan                                     | 25                     |                            |
| exchange membranes . Sweden: Billerud completes chlor-alkali . conversion to membrane cell output . Fumaric Acid — Prices N Jan 11-25 . N Fumigants — EDB see Ethylene Dibromide   | Feb          | 22       |          | (chart)  | Mar                |                     | 33                   | up for non-U.S. companies (charts & tables)  Linde's methanol reactor will get a   |   |                        | 38                         |
| exchange membranes N<br>Sweden: Billerud completes chlor-alia<br>conversion to membrane cell out-<br>put N<br>Furnigants — EDB see <b>Ethylene Dibro-<br/>mide</b> Urethanes' double-digit   | Feb<br>May   | 22 9     | 60       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insul- ate windows   |                    |                     |                      | up for non-U.S. companies (charts & tables). Linde's methanol reactor will get a test. N Monsanto sues Stauffer over herbicide   | Jan                                     | 18                     | 38                         |
| exchange membranes . Sweden: Billerud completes chlor-alkali . conversion to membrane cell output . Fumaric Acid — Prices N Jan 11-25 . N Fumigants — EDB see Ethylene Dibromide   | Feb          | 22 9     |          | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insulate windows N   |                    |                     |                      | up for non-U.S. companies (charts & tables). Linde's methanol reactor will get a test  | Jan<br>Jan                              | 18                     | 19                         |
| exchange membranes N. Sweden: Billerud completes chior-alkali conversion to membrane cell output Prices N. Jan 11-25, N. Fumaric Acid — Prices N. Jan 11-25, N. Fumigants — EDB see Ethylene Dibromide Furniture — Urethanes' double-digit surge: autos and furniture  | Feb<br>May   | 22 9     | 60       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insul- ate windows  N  Zenerators Cogeneration: Air Products to build co- generation plant at New Orleans  | Feb                | 15                  | 33                   | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test.  Monsanto sues Stauffer over herbicide Roundup. Potash: World potash is moving again (chart)   | Jan<br>Jan<br>Mar                       | 18<br>25               |                            |
| exchange membranes N<br>Sweden: Billerud completes chlor-alia<br>conversion to membrane cell out-<br>put N<br>Furnigants — EDB see <b>Ethylene Dibro-<br/>mide</b> Urethanes' double-digit   | Feb<br>May   | 22       | 60       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insulate windows  N  Denerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex  |                    | 15                  |                      | up for non-U.S. companies (charts & tables). Linde's methanol reactor will get a lest. N Monsanto sues Stauffer over herbicide Roundup N Potash: World potash is moving again (chart). West German chemical firms display  | Jan<br>Jan<br>Mar                       | 18<br>25<br>14         | 19                         |
| exchange membranes N. Sweden: Billerud completes chior-alkali conversion to membrane cell output Prices N. Jan 11-25, N. Fumaric Acid — Prices N. Jan 11-25, N. Fumigants — EDB see Ethylene Dibromide Furniture — Urethanes' double-digit surge: autos and furniture  | Feb<br>May   | 22       | 60       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insuitate windows  N  Denerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex R Cogeneration: is congeneration coming of age at last? Texas study out-  | Feb                | 15                  | 33                   | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test . N Monsanto sues Stauffer over herbicide Roundup Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)   | Jan<br>Jan<br>Mar                       | 18<br>25<br>14         | 19<br>36                   |
| exchange membranes. Na Sweden: Billerud completes chlor adialic conversion to membrane cell output. Furnigants — EDB see Ethylene Dibromide. Furniture — Urethanes' double-digit surge: autos and furniture. G   | Feb<br>May   | 22 9     | 13       | (chart) Gels — Aerogeis: project to determine whether aerogeis can be used to insulate windows  Generators Cogeneration: Air Products to build cogeneration plant at New Orleans complex Cogeneration: seongeneration coming of age at last? Texas study outlines a formula for establishing   | Feb                | 15                  | 33                   | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a lest. Monsanto sues Stauffer over herbicide Roundup. Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)   | Jan<br>Jan<br>Mar                       | 18<br>25<br>14         | 19<br>36                   |
| exchange membranes Na Sweden: Billierud completes chlora-lakalic conversion to membrane cell output Na Tumaric Acid — Prices N Jan 11-25, Na Fumigants — EDB see Ethylene Dibromide Prices N Jan 11-25, Na Fumigants — EDB see Ethylene Dibromide See Ethylene See Ethy   | Feb<br>May   | 22       | 60       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insuitate windows  N  Zenerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex R Cogeneration: is congeneration coming of age at last? Texas study outlines a formula for establishing avoided costs (table)   | Feb                | 15                  | 33                   | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test.  Monsanto sues Stauffer over herbicide Roundup. Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)  Glass  Aerogels: project to determine whether aerogels can be used to insulate  | Jan<br>Jan<br>Mar<br>June               | 18<br>25<br>14<br>9 13 | 19<br>36<br>28             |
| exchange membranes N. Sweden: Billierud completes chloradia conversion to membrane cell output N. Furmigants — EDB see Ethylene Dibromide Furmigants — EDB see Ethylene Dibromide Sweden Swed   | Feb May      | 22 9     | 13       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insuitate windows  Zenerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex R Cogeneration: is congeneration coming of age at last? Texas study outlines a formula for establishing avoided costs (tables) Cogeneration/utility fuss over avoided costs: Louisiana processors press  | Jan<br>June        | 15<br>11            | 33<br>16             | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test N Monsanto sues Stauffer over herbicide Roundup N Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)  Glass Aerogels: project to determine whether aerogels can be used to insulate windows is underway N  | Jan<br>Jan<br>Mar<br>June               | 18<br>25<br>14         | 19<br>36                   |
| exchange membranes Na Sweden: Billierud completes chlora-lakalic conversion to membrane cell output Na Tumaric Acid — Prices N Jan 11-25, Na Fumigants — EDB see Ethylene Dibromide Prices N Jan 11-25, Na Fumigants — EDB see Ethylene Dibromide See Ethylene See Ethy   | Feb<br>May   | 22 9     | 13       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insuitate windows  R  Zenerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex R Cogeneration: is congeneration coming of age at last? Texas study outlines a formula for establishing avoided costs (table) Cogeneration/Utility fuss over avoided costs: Louisiana processors press for better prices for excess power   | Feb                | 15                  | 33                   | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test.  Monsanto success Stauffer over herbicide Roundup Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)  Glass Aerogels: project to determine whether aerogels can be used to insulate windows is underway Automobile windshields: antitiacerative coatings come a step closer N                                 | Jan<br>Jan<br>Mar<br>June<br>Feb<br>May | 18<br>25<br>14<br>9 13 | 19<br>36<br>28             |
| exchange membranes — N. Sweden: Billierud completes chiora. Nail conversion to membrane cell output of the conversion to membrane cell output of the conversion to membrane cell output of the conversion of the c | Feb May      | 22 9     | 13       | (chart) Gels — Aerogeis: project to determine whether aerogeis can be used to insulate windows  Cenerators Cogeneration: Air Products to build cogeneration: Air Products to build cogeneration plant at New Orleans complex Cogeneration: Is congeneration coming of age at last? Texas study outlines a formula for establishing avoided costs (table) Cogeneration/tillify fus over avoided costs: Louisiana processors press for better prices for excess power Natural-gas gaie stations considering electric generators powered by pipe- | Jan<br>June<br>Feb | 15<br>11<br>13<br>8 | 33<br>16<br>10<br>12 | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test.  Monsanto sues Stauffer over herbicide Roundup. Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)  Glass  Aerogels: project to determine whether aerogels can be used to insulate windows is underway. Automobile windshields antilacerative coatings come a step closer N Glass container technologies from | Jan<br>Jan<br>Mar<br>June<br>Feb<br>May | 18<br>25<br>14<br>9 13 | 19<br>36<br>28<br>33<br>25 |
| exchange membranes N. Sweden: Billerud completes chlor-alkali conversion to membrane cell output N. Furnigants — EDB see Ethylene Dibromide Furnity — EDB see Ethylene Dibromide Sweden Swede   | Feb May      | 22 9     | 13       | (chart) Gels — Aerogels: project to determine whether aerogeis can be used to insuitate windows  R  Zenerators Cogeneration: Air Products to build cogeneration plant at New Orleans complex R Cogeneration: is congeneration coming of age at last? Texas study outlines a formula for establishing avoided costs (table) Cogeneration/Utility fuss over avoided costs: Louisiana processors press for better prices for excess power   | Jan<br>June<br>Feb | 15<br>11            | 33<br>16             | up for non-U.S. companies (charts & tables) Linde's methanol reactor will get a test.  Monsanto success Stauffer over herbicide Roundup Potash: World potash is moving again (chart) West German chemical firms display new strength (charts & table)  Glass Aerogels: project to determine whether aerogels can be used to insulate windows is underway Automobile windshields: antitiacerative coatings come a step closer N                                 | Jan<br>Jan<br>Mar<br>June<br>Feb<br>May | 18<br>25<br>14<br>9 13 | 19<br>36<br>28             |

|   |                          |              |                | The state of the s |                 |              |          | Consider heatisides in 11 C describes  |            |    |           |
|---|--------------------------|--------------|----------------|--|-----------------|--------------|----------|--|------------|----|-----------|
| Glass Fibers Guardian infringed on a patent and   |                          |              |                | Titanium dumping: USITC finds dump-<br>ing from Japan and U.K N  | Feb             | 1            | 25       | Spraying herbicides in U.S. forests ban-<br>ned: opponents predict a massive   |            |    |           |
| used trade secrets of Johns-Manville  |                          |              |                | Greace   |                 |              |          | economic upheaval  | May 2      | 2  | 15        |
| in manufacture of fiberglass insula-<br>tion court rules  | Jan                      | 4            | 15             | Alumina refinery planned: Soviet Union   |                 |              | 00       | less to do more  | May 23     | 3  | 32        |
| Synthetics for restoring historic fa-<br>cades  | Apr 2                    | 25           | 54             | signs letter of intent   | Mar 2           | 28           | 22       | Highways — Phosphogypsum wastes take to the road   | Apr 25     | 5  | 52        |
| Glick, J. Leslie, chairman and CEO of   | Apr 4                    | 23           | 34             | firms out  | Feb             | 8            | 15       | Hiner, Glen H., v-p and group executive of   |            |    |           |
| Genex: The management evolution at<br>Genex   | May                      | 2            | 38             | Gregory, George, chairman and CEO of<br>Products Research and Chemical: Why  |                 |              |          | GE's Plastics Group: GE's plastics chief has a winner's drive  | May !      | 9  | 57        |
| Glycerine — Prices N  | June :                   | 20           | 60             | PRC's Gregory won CIA's award  | Apr :           | 25           | 47       | Hormones   |            |    |           |
| Glýcol — Dow takes write-off on facility<br>near Sarnia, Ont  | Feb :                    | 22           | 9              | Guayule  |                 |              |          | Amgen joint venture with Kirin Brewery   |            |    |           |
| Glycol. Ethylene Glycol see Ethylene<br>Glycol  |                          |              |                | Chemicals from 'wild' plants<br>House deletes biotech, guayule rubber  | May             | 16           | 30       | to make and market a synthetic hor-<br>mone for boosting red blood cells   |            |    |           |
| Glycol Diether — ChemDesign: 'Buy   |                          |              |                | funds N<br>Gum, chewing — Merrell Dow's Nicor-   | June            | 13           | 40       | May 23-9 N   | May 2      | 3  | 35        |
| American'   | Mar                      | 21           | 14             | ette, chewing — Merrell Dow's Nicor-<br>ette, chewing gum, helps smokers quit  | Mar             | 14           | 22       | Amgen makes genetically engineered<br>hormone to counter anemia N  | Jan 1      | 1  | 32        |
| Glycol Ethers   |                          |              |                |  |                 |              |          | Amgen and Upjohn agreement on  |            |    |           |
| EPA's health review: A coming ban on  | Ech                      | 8            | 12             | Gypsum Florida pushes EPA on gypsum-byprod-  |                 |              |          | bovine growth hormone  | May 2      | 3  | 9         |
| four glycols? (table)  — Letter   | Feb<br>Apr               | 18           | 13             | uct safety   | Jan             | 25           | 80       | dustrial scale-up<br>Hydrocarbons — Chlorinated hydrocar-  | Mar 2      | 8  | 28        |
| Regulation proposed by EPA; CMA responds  | Apr                      | 4            | 40             | compromise plan approves a second  | hone            | 00           | 10       | bons listed as wastes by EPAN<br>Hydrochloric Acid — Prices N May  | Feb 1      | 5  | 48        |
|   | 7401                     | -            | 40             | Phosphogypsum wastes: researchers  | June            | 20           | 18       |  | June 2     | 7  | 16        |
| Glyphosate Herbicide enraving hans lesues in Ore-   |                          |              |                | look at use as a road base and a construction material   | Apr             | 25           | 52       | Hydrofluoric Acid — Allied starting up facility at Amherstberg, Ont.; Geisman  | -          |    |           |
| Herbicide spraying bans issues in Oregon and Washington   | Mar                      | 21           | 18             | Construction material  | Apri            | 20           | 02       | facility being expanded  | Apr        | 4  | 16        |
| Monsanto wins Round One in patent tiff<br>with Stauffer over glyphosate herbi-  |                          |              |                |  |                 |              |          | Correction     Hydrogasification see Gasification  | May        | 2  | 5         |
| cide in the U.K   | Feb<br>Mar               | 22           | 9              | н  |                 |              |          |  |            |    |           |
| Monsanto wins round two N   | June                     |              | 20             | ••   |                 |              |          | Hydrogen Air Products Europe will build argon/   |            |    |           |
| Round three: New Zealand court re-<br>strains Stauffer's activity for gly-  |                          |              |                | Hahnemann University — Testing of new  |                 |              |          | hydrogen plant at ICI's Billingham   | Any 1      | 0  | 20        |
| phosphate-based Touchdown her-  |                          |              |                | drug, Ampligen, will be expanded in study of interferon's role in cancer   |                 |              |          | Canadian project uncertain N   | May 1      | 6  | 28<br>29  |
| Gold Haber Gold Process: Staking a  | June                     | 20           | 23             | study of interferon's role in cancer<br>therapyN   | May             | 23           | 35       | Gas production in 1983 N<br>Industrial gases heat up in Europe   | Mar 2      | 21 | 65        |
| claim on a gold-winning process   | Feb                      | 8            | 14             | Hair — Upjohn studying minoxidil high  | may             |              | -        | Prices N Jan 4-20, N   | Feb        | 1  | 66<br>25  |
| claim on a gold-winning process Goldsberry, Ronald E., president and COO of Parker Chemical: Parker's new   |                          |              |                | blood pressure medication as a hair stimulant  | Mar             | 28           | 19       | Hydrogen Peroxide  |            |    |           |
| COO flexes his enterpreneurial skills Graphic Arts Technical Foundation —   | Jan                      | 4            | 25             | Hair-Care Products — Hair-care mousses:  |                 |              |          | FMC plans plant in Canada N  | Apr        |    | 24        |
| Water-based inks' quality   | Apr                      | 18           | 10             | a boost for chemicals  | Mar             | 21           | 71       | Prices N Treating wastewater by polymerizing   | June 1     | 13 | 24        |
| Graphite — Fibers: Hercules' graphite-<br>fiber strategy full speed ahead N   | Feb                      | 29           | 5              | Health   |                 |              |          | pollutants: combination of hydrogen  |            |    |           |
| Gravure Technical Assn. — For printing,   | 100                      | 20           | •              | Artists demand warning labels on their supplies  | Jan             | 18           | 39       | peroxide and the enzyme horserad-<br>ish peroxidase N  | May        | 2  | 37        |
| water-based inks come on strong (chart)   | Apr                      | 18           | 10             | Letter     Cancer probes see Cancer, Labor —   | Mar             | 21           | 5        | ish peroxidase N<br>Hydrogenation — Monsanto's hydrogen-   |            |    |           |
| — Letter  | May                      |              | 5              | OSHA   |                 |              |          | ation facility for rubber chemicals at plant in Sauget, III.   | May        | 30 | 17        |
| Great Britain   |                          |              |                | Heat — Winning more watts from waste<br>heat: Omnimax to build thermoelectric  |                 |              |          | Hydroprene — Birth-control chemical for cockroaches N  | June :     |    | 96        |
| Air Products Europe will build argon/   |                          |              |                | generators (diagram)   | June            |              | 26       | Hydroquinone Ethers — ChemDesign:  |            |    |           |
| hydrogen plant at ICI's Billingham complex  | Apr                      | 18           | 28             | Heat-transfer Fluids — Prices N  | Jan             | 11           | 25       | 'Buy American' Hydroxylamine Sulfate — Allied's propri-  | Mar        | 21 | 14        |
| Albright & Wilson puts emphasis on  |                          |              |                | Hellum   | Man             | 01           | 00       | etary process enables it to become first   | Mari       | 0  | 07        |
| phosphorus chemicals N<br>Angus Chemical and Isochem joint ven-   | Jan                      | 4            | 16             | Industrial gases heat up in Europe<br>Prices N Apr 11-38, N  | Mar<br>Apr      | 21<br>18     | 66<br>20 | U.S. source of hydroxylamine sulfate N<br>Hypochlorites — Swimming-pool chemi-   | May        | 2  | 37        |
| ture will build nitroparaffin plant in  | Ech                      | 1            | 9              | Herbicides   |                 |              |          | cals: Chemical makers play hard-nosed polo in the pool (chart & table)   | Mar        | 7  | 10        |
| Wales   | Feb                      |              | 9              | Aerial spraying of herbicides curtailed  |                 |              |          | polo in the poor (chart a table)   | Mai        | ,  | 10        |
| inelli, president and chief executive officer: For BCC, no easy road to a   |                          |              |                | by U.S. Forest Service N<br>Agent Orange   | Apr             | 25           | 76       |  |            |    |           |
| turnaround  | June                     | 13           | 21             | House backs payment to Vietnam<br>veterans for Agent Orange expo-  |                 |              |          |  |            |    |           |
| BP Chemicals sells chlor-alkali, Sand-<br>bach Div. to Hays GroupN  | Mar                      | 21           | 20             | sure   | Feb             | 8            | 40       | •  |            |    |           |
| Capital spending up in the U.K. N Feb<br>29-16, N   | Apr                      |              | 24             | U.S. Air Force study supports many   |                 |              |          | Imaging — Photochemicals' new image:   |            |    |           |
| Chemical industry: a good first quarter   |                          |              |                | views in the Agent Orange case: "Ranch Hands" group studied CDC's Agent Orange/vietnam Experience study details (table)  | Mar             | 14           | 20       | Du Pont and Hercules will push electro-  | Apr        | 4  | 11        |
| Courtaulds' sales and earnings fiscal   | May                      | 16           | 29             | CDC's Agent Orange/Vietnam Exper-<br>ience study details (table)   | Mar             | 28           | 14       | statics beyond photocopiers  | Apr        | -  | **        |
| 1983 N  | June                     |              | 20             | Agent Orange case The Agent Orange surprise  |                 |              |          | Imports  |            |    |           |
| Drug imports curbed N<br>Fibers: better production performance  | June                     | 9 6          | 18             | Tentative settlement: payments N   | May<br>May      |              | 24       | African soda ash: two companies, Afri-<br>can Selection Trust and AECI fight it  |            |    |           |
| in man-made fibers  | Mar                      | 14           | 28             | Pressing for federal review of Agent   |                 |              |          | out to see whose product will re-  | Apr        | 11 | 18        |
| Fibers performance: good but not great N  | June                     | e 6          | 18             | Orange claims N<br>Allelochemicals: Plants that produce  | May             | 30           | 40       | place imports (map) Ammonia imports: controls on Mexican ammonia — FI annual meeting   |            |    |           |
| Fibers: synthetic fibers recovery continues   | Jan                      |              | 16             | their own herbicide Amitrole: tighter restraints   | May             | 23           | 28<br>40 | Balance of trade   | Feb        | 22 | 10        |
| FDA takes a shot at the U.K. drug-  |                          |              |                | Bans on herbicide spraying issued in   |                 |              |          | A big trade setback for U.S. produc-   | Feb        | 20 | 24        |
| approving record  | Apr                      | 11           | 58             | Oregon and Washington R<br>Ciba-Geigy to sell home and garden  | Mar             | 21           | 18       | ers (tables)   |            |    |           |
| will take over 20 000 metric tons/vr  |                          |              |                | market business  | May             | 30           | 17       | but with restraint (chart & table)<br>Signaling trouble in trade (chart)   | Feb        |    | 10<br>13  |
| of polystyrene manufacturing capac-<br>ity from Shell Chemicals U.K N   | May                      | , 2          | 20             | Du Pont to commercialize herbicides,<br>Ally and Londax  | Mar             | 28           | 19       | Soaring imports shrink the surplus   |            |    |           |
| ICI improves its performance in 1983:   |                          |              |                | EDB see Ethylene Dibromide   |                 |              |          | in chemical trade (chart)  | June       | 20 | 14        |
| sales and earnings N<br>ICl offers nylon for tire production N  | Mar                      | 8            | 19<br>17       | Herbicides follow the current trend to<br>low-till farming; the boom in post-  |                 |              |          | try is divided over protectionism  | Mar        | 20 | 34        |
| ICI opens fiber research center N<br>ICI sells its 20% share in Vantona   | Apr                      | 11           | 24             | emergent herbicides (table) Lilly's Treflan: price gambit fizzles  | May             |              | 12       | (charts)   | IBIM       | 20 | 34        |
| ViyellaN  | Jan                      | 4            | 16             | Monsanto-Spray-Rite Services suit: man-  |                 | 20           | ,        | Barium chloride and barium carbon-   | Feb        | 1  | 25        |
| ICI will double capacity for Victrex<br>high-performance thermoplastic res-   |                          |              |                | ufacturers must still be wary on re-<br>sale prices  | Mai             | 28           | 48       | ate dumping from China found N<br>Choline chloride: Syntex antidump-   | ren        | ,  | 23        |
| insN  |                          | e 27         | 90             | Monsanto sues Stauffer over herbicide  |                 |              |          | ing petitions claim foreign produc-<br>ers trying to drive U.S. competi-   |            |    |           |
| International forecast: A business pick-<br>up for non-U.S. companies (charts &   |                          |              |                | Roundup in Germany N<br>Monsanto wins Round One in patent tiff   | f Jan           | 25           | 19       | tors out of business (chart)   | Jan        | 18 | 14        |
| tables)   | Jan                      | 25           | 64             | with Stauffer over glyphosphate her-   |                 | 22           | 9        | EC lifts restrictions on the price of saccharin N  | Jan        | 4  | 16        |
| Methane purification plant will use<br>Sulzer Bros. technology  | Jan                      | 25           | 19             | bicide in the U.K  | Mai             | 14           | 5        | Polychloroprene rubber dumped in   |            |    |           |
| MTBE plant planned  | Jun                      | e 13         | 20             | Monsanto wins round two N<br>Round three: New Zealand court re-  | Jun             | e 13         | 20       | U.S. from Japan, Commerce Dept.<br>finds   | Feb        | 1  | 25        |
| with Stauffer over glyphosphate   |                          |              |                | strains Stauffer's activity for gly-<br>phosphate-based Touchdown her  |                 |              |          | Potash: U.S. continues to probe im-  | May        | 16 | 29        |
| herbicide in the U.K N  |                          | 22           | 9              | phosphate-based Touchdown her-<br>bicide   | lun.            | e 20         | 23       | Swimming-pool chemicals: Com-  | rendy      | ,0 | 20        |
|   | Feb                      | 14           | 5              |  |                 |              | 20       |  |            |    |           |
| Monsanto wins round two N   | Mai                      | r 14<br>e 13 | 20             | Monsanto's Lasso herbicide ingredient  | t               |              |          | merce Dept. ruling against Japan-  | Mar        | 7  | 10        |
| Monsanto wins round two N<br>Pesticide rule: British Agrochemicals  | Jun                      | r 14<br>e 13 | 20             | Monsanto's Lasso herbicide ingredient<br>alachlor: EPA now re-reviewing the  | t<br>i tun      | e 20         | 13       | merce Dept. ruling against Japan-<br>ese imports Titanium: USITC finds titanium dump-  | Mar        |    | 10        |
| Monsanto wins round two   | Mai<br>Jun               | e 13         | 20             | Monsanto's Lasso herbicide ingredient<br>alachlor: EPA now re-reviewing the  | t<br>i tun      | e 20         | 13       | merce Dept, ruling against Japan-<br>ese imports .<br>Titanium: USITC finds titanium dump-<br>ing . N  | Mar<br>Feb | 7  | 10        |
| Monsanto wins round two N Pesticide rule: British Agrochemicals Assn. — industry counts on stricter safety regulations to curb imports (chart). Pesticides: mixed results N                                   | Mar<br>Jun<br>Mar<br>Mar | e 13         | 20<br>16<br>18 | Monsanto's Lasso herbicide ingredient<br>alachior: EPA now re-reviewing the<br>safety.  Monsanto's Nitro, W. Va. dioxin-expo<br>sure lawsuit: USWA will help finance<br>trial for plaintiffs.  | t<br>Jun        | e 20<br>e 13 | 13       | merce Dept. ruling against Japan-<br>ese imports.  Titanium: USTIC finds titanium dump-<br>ing. N<br>East-West trade<br>U.SSoviet trade: picking up again. N   | Feb        | 1  |           |
| Monsanto wins round two N Pesticide rule: British Agrochemicals Assn. — Industry counts on stricter safety regulations to curb imports (chart) Pesticides: mixed results Research Corporation Trust: the U.S. | Mai<br>Jun<br>Mai<br>Mai | e 13         | 20             | Monsanto's Lasso herbicide ingredien<br>alachior: EPA now re-reviewing the<br>safety Nitro, W. Va. dioxin-expo<br>sure lawsuit: USWA will help finance<br>trial for plaintiffs<br>North Carolina study finds no cancer   | l Jun           |              |          | merce Dept. ruling against Japan- ese imports. Titanium: USTIC finds titanium dump- ing. East-West trade U.S. Soviet trade: picking up again N EC tightens the trade screws: methanol, VAM, sytrene, and PE sheet and film | Feb<br>May | 30 | '25<br>18 |
| Monsanto wins round two N Pesticide rule: British Agrochemicals Assn. — industry counts on stricter safety regulations to curb imports (chart). Pesticides: mixed results N                                   | Mai<br>Jun<br>Mai<br>Mai | e 13         | 20             | Monsanto's Lasso herbicide ingredient<br>alachior: EPA now re-reviewing the<br>safety.  Monsanto's Nitro, W. Va. dioxin-expo<br>sure lawsuit: USWA will help finance<br>trial for plaintiffs.  | t<br>Jun<br>Jun |              |          | merce Dept. ruling against Japan-<br>ese imports.  Titanium: USTIC finds titanium dump-<br>ing. N<br>East-West trade<br>U.SSoviet trade: picking up again. N   | Feb<br>May | 30 | '25       |

| Fertilizers lose ground in foreign trade . N  |  | 16<br>23 | 51<br>25 | Conrail: Who will get Conrail? 14 bids (table)  | June       | 27   | 10 | The battle lines are being drawn over<br>FIFRA reform                                       | Mar 1  | 4  | 14 |
|---|--|----------|----------|---|------------|------|----|---|--------|----|----|
| Fibers: trade balance worsening N<br>Forecast 1984: The gains for chemi-                                      |  | -        |          | Cosden buys Arco's polypropylene  | Julie      | 21   | 10 | Congress pushes for biotechnology regulation N  | Mar 2  |    | 48 |
| cals will continue (charts & table)<br>Generalized System of Preferences:                                     | Jan                                    | 4        | 30       | facility in La Porte, Tex. N Apr 4-9, (table)   | Арг        | 11   | 15 | Household insecticide sales will soar . N<br>Pesticides                                     | May 3  |    | 24 |
| Trade groups propose more reforms for GSP   | Feb                                    |          | 48       | Dart & Kraft unloads its plastic spe-<br>cialties: leveraged buyout of five               |            |      |    | Biological warfare against fire blight N  | Feb 1  | 15 | 33 |
| Great Britain curbs drug imports N<br>Great Britain's popular pesticide rule:                                 | June                                   | 6        | 18       | businesses by an employee inves-<br>tor group   | Apr        | 18   | 12 | BioTechnica signs pact with Mon-<br>santo to develop a pesticide R                          | Apr 1  | 11 | 23 |
| industry counts on stricter safety<br>regulations to curb imports (chart)                                     | May                                    | 23       | 16       | Dowell will be folded into Dowell<br>Schlumberger   | Feb        | 29   | 8  | Birth-control chemical for cock-<br>roaches   | June 2 | 27 | 96 |
| International forecast: A business pick-<br>up for non-U.S. companies (charts &                               | ······································ | 20       |          | Esmark's acquisition by Beatrice<br>Foods: Whither Esmark's and                           |            |      |    | Child-resistant packaging: EPA may<br>ease up on child-proofing of pesti-                   |        |    |    |
| tables)<br>ITA's Basic Industries Sector program  | Jan :                                  | 25       | 64       | Beatrice's chemicals?<br>Esmark's Estech up for sale: lever-                              | May        | 30   | 13 | cides   | Jan 1  | 11 | 43 |
| will inform the chemical industry on  |  | 40       |          | aged buyout possible  | Feb        | 29   | 9  | for fly larvae: another bid for ap-<br>proval N   | May    | 2  | 44 |
| Japanese imports of silica-encapsulated   | May                                    | 16       | 68       | Kohlberg, Kravis & Roberts makes<br>acquisition offer for Esmark, in-                     |            |      |    | EPA effluent guidelines for pesticide   |        |    |    |
| lead chromate pigments: ITC ban up-<br>held: Du Pont patent infringement<br>suit against Toho and Nihon still |  |          |          | cluding Norton Simon and Es-<br>tech  | May        | 9    | 11 | industry to be delayed R<br>EPA's pesticide regulations: Admin-                             | Jan 1  | 11 | 16 |
| suit against Toho and Nihon still<br>pendingR   | June                                   | 6        | 17       | Leveraged buyout at Esmark puts<br>Estech buyout on hold N                                | May        | 16   | 11 | istration's Pesticide Advisory Com-<br>mittee being formed  EDB see Ethylene Dibromide      | Apr    | 18 | 14 |
| Latin America — Chemical exports: At stake in the international banking                                       | 00110                                  |          |          | Faberge will support takeover by<br>McGregor  | Feb        | 1    | 14 | EDB see Ethylene Dibromide<br>EDB substitutes: Challenges for EDB                           |        |    |    |
| rescue (charts)   | June                                   | 20       | 53       | Getty Oil and Pennzoil's leveraged<br>buyout agreement: Getty's chemi-                    |            |      |    | substitutes   | Apr    | 4  | 14 |
| Methanol: EC tariff assessment and<br>U.S. congressional action   | Mar                                    | 7        | 12       | cal units may go on the auction   | lon        | 44   | 9  | goes off the market N Mar 7-9,  | Apr    | 4  | 14 |
| Natural gas: DOE seeks competitive<br>prices in natural gas imports N   | Feb                                    | 29       | 40       | Getty Oil: Texaco acquisition —   | Jan        | 11   | 9  | ucts to capitalize on EDB ban N   | May    | 2  | 9  |
| Natural gas: Trunkline LNG imports<br>from Algeria controversy — DOE  |  |          |          | Whither Getty's chemicals?<br>(chart)   | Jan        | 18   | 11 | EPA's OPTS: Bringing balance to<br>toxics rules making; Moore: 'We                          |        |    |    |
| ends proceedings N Pesticides imports N   |  | 21<br>18 | 84<br>28 | Gulf stockholders approve Standard<br>Oil of California merger; Socal                     |            |      |    | must ensure that all parties know<br>how we make our decisions'                             | May    | 9  | 53 |
| Petroleum   | our                                    |          | 20       | must now sell off one of its refin-   | June       | 20   | 13 | EtO-sterilization pesticides: EPA re-<br>quests labeling changes N                          | Apr :  | 25 | 76 |
| 'Arab OPEC' loses ground in U.S. imports  | Feb                                    | 29       | 28       | Italy's specialty firms: Takeover tar-  |            |      |    | Export growth for pesticides N 'Fairer' bill for pesticide patents —                        |        | 18 | 28 |
| Hormuz: No chemical crisis yet<br>(chart & map)   | May                                    | 30       | 26       | gets (chart) Kaiser's game plan to get Harshaw  | Jan        | 4    | 17 | Glickman's bill   | May :  | 30 | 15 |
| U.S. oil supplies — a warning; crude oil imports will double by 2000  |  |          |          | Koppers' high-tech hunt: MotorTech  | Feb        | 8    | 22 | Great Britain: mixed results in pesti-<br>cides   | May    | 23 | 18 |
| (chart). Potash producers, Amax and Kerr-   | May                                    | 2        | 12       | joint venture; joint venture with<br>DNA Plants Technology                                | Feb        | 29   | 10 | Great Britain's popular pesticide rule:<br>industry counts on stricter safety               |        |    |    |
| McGee, file for import relief N<br>Potash: U.S. potash producers will peti-                                   | Apr                                    | 18       | 20       | DNA Plants Technology  Mobil Chemical to sell U.S. and Canadlan industrial-coatings busi- |            |      | -  | regulations to curb imports (chart)<br>Industrial Bio-Test Laboratories sen-                | May    | 23 | 16 |
| tion for protection from cut-rate off-  |  |          |          | nesses to Valspar   | May        | 23   | 4  | tences for three former employ-   | Apr    | 18 | 17 |
| shore imports N<br>Textiles: To stem the rising tide of tex-  |  | 11       | 38       | Valspar's bid for greater growth<br>(chart)   | May        | 30   | 12 | National Agricultural Chemicals Assn.   | Apr    | 10 | ** |
| tile imports (table)  | Feb                                    | 8        | 15       | Nalco's electronic niches: acquiring<br>Circuit Services, buying 20%                      |            |      |    | announces new safety program<br>for farm workers exposed to pesti-                          |        |    |    |
| Trade Remedies Reform Act of 1984<br>H.R. 4784): House acts to beef up  |  |          |          | equity stakes in Rodel and Rodel<br>Products  | Jan        | 11   | 12 | NRDC pesticides report: What's a  | Mar    | 7  | 40 |
| antidumping laws N  |  | 18       | 52<br>18 | Oil-company mergers: legislation<br>Pennsylvania antitakeover law, Share-                 | Mar        | 14   | 15 | 'safe' pesticides level? (table) Pesticides penetrate clothes reports                       | Mar    | 28 | 16 |
| UN seeks controls on pesticide trade . N<br>Uranium: U.S. producers may ask ITC                               | Apr                                    | •        | 10       | holder Protection Act. signed N   | Jan        | 4    | 9  | Univ. of Calif.'s Fenske at ACS meetingN  | Apr    | 18 | 37 |
| to investigate impact of uranium im-<br>ports from Canada (chart)   | Apr                                    | 11       | 12       | Royal Dutch offer for Shell shares<br>'held in abeyance' as Delaware                      |            |      |    | Reuter Laboratories' nucleopolyhe-  |        |    |    |
| West German chemical firms display<br>new strength (charts & table)   | June                                   | 13       | 28       | court rules that \$58/share price<br>wasn't realistic                                     | May        | 16   | 22 | drosis virus zaps gypsy moths (table)   | Apr    | 25 | 19 |
| Incineration  |  |          |          | SCM's bet on tall oil specialties:<br>acquires full ownership of Sylva-                   |            |      |    | Squeezing insecticides from oranges:<br>fire ants, flies, fleas and weevils                 |        |    |    |
| At-Sea Incineration stands by to launch<br>new incinerator ship, Apollo One N                                 | Feb                                    | 8        | 0        | chem<br>Standard Oil of California merger   | Feb        | 15   | 11 | succumb to the oils extracted from citrus peet  | June   | 27 | 20 |
| Chemical Waste Management: delay  | 100                                    | 0        | 9        | with Gulf Oil: A merger for oil, not chemicals? (chart)                                   | Mar        | 14   | 15 | Stauffer abolishes early-buy pesti-<br>cide marketing program N                             | May    | 2  | 9  |
| but no dismay for ocean incinera-<br>tion   | May                                    | 2        | 14       | Texaco to sell Getty's stations to  |            |      |    | UN seeks controls on pesticide  | Apr    | 4  | 18 |
| McKesson may acquire a controlling<br>interest in Environmental Systems N                                     | Apr                                    | 4        | 9        | Power Test R<br>Union Carbide to acquire Katalistics                                      | Feb        | 8    | 16 | Worldwide pesticide sales prospects   |        |    |    |
| Ocean-incineration plan of Chemical<br>Waste Management stalls as EPA   |  |          |          | fluid cracking catalysts business . Waste Management's bid for SCA                        | Mar        | 21   | 13 | good N<br>Pyrethroid insecticides: worldwide sales  | Feb    | 8  | 17 |
| bans any further incineration in the<br>Gulf of Mexico . N  | May                                    | 30       | 40       | Services could strengthen both firms (chart)  | June       | 20   | 17 | Inspection — Stauffer wins inspection   | Apr    | 4  | 18 |
| Ocean incineration: A setback for PCB   | ·····                                  |          |          | Mergers and acquisitions: for newsletter  |            |      |    | suit against EPA  | Jan    | 18 | 44 |
| incineration at sea — EPA denies<br>Chemical Waste Management two   |  |          |          | and wrap-up items see under individ-<br>ual company names in Company                      |            |      |    | transferring operation and manage-<br>ment of HYGAS/PEATGAS pilot plant. N                  | Jan    | 25 | 80 |
| research permits  Tracers: simpler monitoring of hazard-  | June                                   | 20       | 39       | Index   |            |      |    | montor transfer Extransplot plant. N  | Jun    | 20 | 00 |
| ous waste incineration N<br>India — Ciba-Geigy gives gift of drugs to   | Feb                                    | 1        | 30       | Optical-disk technology: Du Pont buys<br>the right to use technology from joint           |            |      |    | Instruments Analyzing a multicomponent liquid   |        |    |    |
| fight leprosy N   | Feb                                    | 29       | 16       | the right to use technology from joint<br>venture with Storage Technology N               | June       | 13   | 9  | streamN   | Mar    | 28 | 33 |
| Industrial Biotechnology Assn.  |  |          |          | Partition coefficients are available on-  | Jan        |      | 38 | Argonne National Lab's instrument, called Shade, disposes of hazardous                      | Feb    | 8  | 16 |
| Center for Advanced Research in Bio-<br>technology, CARB: new biotech cen-                                    | Ech                                    | 20       | 10       | inka  | our        |      | 00 | CO monitor from Syconex N   | Apr    | 25 | 30 |
| Industry worries about biotechnology  | Feb                                    |          | 16       | For printing, water-based inks come on  |            | 40   | 40 | Esco investments in analytical equipment  | June   | 6  | 17 |
| Price comments on NEPA  | Apr                                    | 18       | 52<br>14 | strong (chart)  — Letter  | May        | 18   | 10 | Lab Instruments for rent from United<br>States Analytical Instruments                       | Jan    | 18 | 14 |
| Why Wall Street wants more biotech-<br>nology data  | Mar                                    | 7        | 22       | Ink Technology to grant marketing rights to UV-cured inks to S.C. Johnson R               | Mar        | 21   | 19 | Medical diagnostics: Hot and tough to   | Feb    | 29 | 3  |
| Industrial Health Foundation — Sympos-<br>ium: Weighing the risks of nylon-wrapped                            | 14101                                  |          |          | Inland Waterways  |            |      |    | crack — Viewpoint  Medical diagnostics. A red-hot market for chemicals and hardware (table) | Feb    |    | 30 |
| food  | May                                    | 23       | 13       | Tenn-Tom's newly finished leg: A chan-<br>nel for chemical transport savings . N          | Man        | 16   | 11 | - Letter  | Mar    |    | 5  |
| Industry Developments   |  |          |          | Tenn-Tom waterway is 90% complete   |            | 23   | 26 | Medical instruments company, Quinton<br>Medical, acquired by A.H. Robbins .R                | Jan    | 18 | 18 |
| Biotechnology report from OTA: To en-<br>sure biotech's future — Viewpoint                                    | Feb                                    | 1        | 3        | (map)   |            | e 27 | 5  | Robots that will sniff chemicals: com-<br>bining gas-sensitive sensors and                  |        |    |    |
| The tenuous U.S. lead in biotechnol-<br>ogy (chart)   | Feb                                    | 1        | 21       | Insecticides  |            |      |    | Microprocessing   | Mar    | 14 | 29 |
| How manufacturers rank the states:<br>fifth annual study on General Manu-                                     |  |          |          | Agricultural chemicals see Agricultural<br>Chemicals                                      |            |      |    | flaws being developed by GE N   | May    | 9  | 33 |
| facturing Business Climates   | Apr                                    | 25       | 20       | Ciba-Geigy to sell home and garden<br>market business                                     | Mar        | 30   | 17 | Insulation  |        |    |    |
| ical industry N   | Apr                                    | 25       | 76       | Federal Insecticide, Fungicide and Ro-<br>denticide Act                                   |            |      |    | Aerogels: project to determine whether<br>aerogels can be used to insulate win-             |        |    |    |
| Mergers & acquisitions<br>American Cyanamid parting com-  |  |          |          | Another pass at a 'passable' FIFRA  | len        |      | 40 | dows N<br>Asbestos insulation removal with new  | Feb    | 15 | 33 |
| pany with Formica<br>Amoco Chemicals considering the  | May                                    | 16       | 16       | Tightening up on emergency use of   | Jan        |      | 42 | process is result of U.S. Navy spon-  | Apr    | 4  | 34 |
| acquisition of Gulf Oil Chemical's polypropylene business   | Jan                                    | 18       | 12       | pesticides (table)  | Jar<br>Fei |      | 10 | sored research N  Dow to up Styrofoam insulation plant capacity at Gales Ferry, Conn R      |        |    | -  |
| polypropylene business Ashland Oil: Building a business on amail business                                     |  | 11       | 26       | FIFRA data disclosure: Is it unconsti-<br>tutional? Supreme Court will de-                |            |      |    | Guardian infringed on a patent and<br>used trade secrets of Johns-Manville                  | Feb    | 29 | 12 |
| Letter Chemed: An independent Chemed  | Apr                                    |          | 5        | cide Monsanto-EPA dispute A badly timed call for change —                                 | Ma         | 7    | 14 | in manufacture of fiberglass insula-  |        |    |    |
| hits the acquisition trail  | Jun                                    | ө 6      | 23       | Viewpoint   | Me         | r 14 | 3  | tion court rules  | Jan    | 4  | 15 |
|   |  |          |          |   |            |      |    |   |        |    |    |

| Urea-formaldehyde  |        |      |          | Montedison: case involving cancer  |            |          |          | Chumononain: A hank drug laboling  |        |     |     |
|--|--------|------|----------|--|------------|----------|----------|--|--------|-----|-----|
| CPSC formaldehyde hazards panel  |        |      |          | deaths at Acna plant rescheduled . N   | Feb        | 8        | 17       | Chymopapain: A back-drug labeling change                                       | June 2 | 20  | 23  |
| seeks scientists N   | Mar    | 7    | 40       | Acna's two ex-directors receive sus-   |            |          |          | CPSC recommending changes be made  |        |     |     |
| Insulin  |        |      |          | pended sentences in trial involv-<br>ing cancer deaths of workers N              | Apr        | 25       | 25       | in labeling requirements for certain<br>substances contained in household      |        |     |     |
| Canadian competition in human in-  | Jan    | 4    | 29       | Montedison negotiating for joint ven-  | Mar        | 00       |          | products   | Jan 1  | 18  | 18  |
| Novo to make insulin in Canada N   | Feb    |      | 16       | ture in China N Montedison posts another loss N                                  |            | 28<br>15 | 22<br>18 | Diabetes medicine: oral medicines'<br>product labels must be altered R         | Apr 2  | 25  | 22  |
| Insurance - Asbestos: an out-of-court  |        |      |          | Montedison will build a plant in the   |            |          |          | EtO-sterilization pesticides: EPA re-  |        |     |     |
| fund for asbestos claims (table)   | Apr    | 25   | 18       | U.S.S.R. N<br>Montedison would transfer intermedi-                               | Mar        | 7        | 19       | quests labeling changes N<br>Pesticides: EPA may ease up on child-             | Apr 2  | 25  | 76  |
| Interferon   |        |      |          | ates unit to ENIN  | Apr        | 4        | 18       | proofing of pesticides: recommends   |        |     |     |
| Biogen patent on alpha interferons will  |        |      |          | — Correction   |            | 18       | 5        | labels carry warnings N<br>Sodium-content labeling for food: Church            | Jan 1  | 11  | 42  |
| be protested by Genentech and<br>Hoffman-La Roche  | Feb    | 29   | 5        | Recovery is under way  | Mar<br>Jan | 14<br>25 | 28<br>57 | & Dwight asking FDA to reconsider  |        |     |     |
| China: Biogen and Shaanxi Pharma-  |        |      |          | Snia Fibre cancels rayon plant at  |            |          |          | rules covering sodium bicarbonate  | May 2  | 23  | 12  |
| Genentech testing gamma interferon   | Jan    | 4    | 16<br>13 | Rieti  | Jan        | 18       | 20       | Labor  |        |     |     |
| Hahnemann Univ. will test new drug,  | - Juli | 7    |          | (chart)  | Jan        | 4        | 17       | AFL-CIO's IUD plans funding for occu-<br>pational disease lawsuits             | h.m.   | 00  | 74  |
| Ampligen, in study of interferon's<br>role in cancer therapy   | May    | 23   | 35       |  |            |          |          | BASF Wyandotte's Geismar, La. plant:   | June : | 20  | 74  |
| Interleukin-2 — Who's ahead in the IL-2  | may    | 20   |          |  |            |          |          | OCAW talks remain in limbo R   | June : | 27  | 15  |
| race?  | Apr    | 18   | 16       |  |            |          |          | EPA inspections: Stauffer wins an in-<br>spection suit                         | Jan    | 18  | 44  |
| Intermediates  |        |      |          | •  |            |          |          | Farm workers: NACA announces new   |        |     |     |
| Cyclohexanone: EPA lets industry do  | -      |      |          |  |            |          |          | safety program for farm workers ex-<br>posed to pesticides N                   | Mar    | 7   | 40  |
| tests on a nylon precursor N<br>Ethylene glycol: Massive restructuring   | Fab    | 8    | 40       | Japan<br>Allied receives Japanese patent on                                      |            |          |          | MDA in workers: more tests ahead N   |        | 11  | 42  |
| in a 'crummy business' (charts)  | Mar    | 7    | 32       | Metglas amorphous metal alloys . R   | Jan        | 18       | 18       | NIOSH Respirator users face potential chem-                                    |        |     |     |
| Montedison would transfer intermedi-<br>ates unit to ENI   | Apr    | 4    | 18       | Aramic fiber joint venture to be formed<br>by Du Pont and Toray N                | May        | 23       | 18       | ical hazard N  | Jan    | 4   | 44  |
| - Correction   |        | 18   | 5        | Asahi's membrane recovers oxygen for   |            |          |          | Styrene: lower exposure limits called  | lan    | 4   | 44  |
| Production: ten-month production soars   | lan    | 4.4  | 25       | industrial use   |            | 18       | 38<br>27 | OSHA N   | Jan    | 4   | 44  |
| for major organics N International Trade Administration —  | Jan    | 11   | 25       | Computerizing patent searches N  | Feb<br>Feb | 15       | 18       | Asbestos: OSHA offers tough new asbestos limits                                |        |     |     |
| International Trade Administration —<br>Basic Industries Sector program will   |        | 10   | 00       | Computerizing patent searches N Du Pont plans Vespel polyimide parts             | Mar        | 21       |          | Auchter departs with very mixed re-  | Apr    | 18  | 52  |
| inform the chemical industry on trade N<br>International Trade Commission — Study  | May    | 16   | 68       | plant  | Mar        | 21       | 9        | viewsN   | Mar    | 14  | 58  |
| ordered to assess the 'health' of the  |        |      |          | mer capacity at Otake; sells tech-<br>nology and marketing information           |            |          |          | Awards to Mobil Chemical for supe-   |        |     |     |
| chemical industry N  | Apr    | 25   | 76       | for copper pigment products to   |            |          |          | rior safety and health record at seven plants                                  | Feb    | 22  | 18  |
| Inventories  |        |      |          | Tokyo Ink Manufacturing N  | Apr        | 11       | 24       | Renzene: Union and industry — still  |        |     |     |
| Benzene inventories trend downward. N<br>Benzene stocks plummet. N   |        | 22   | 28       | Englehard granted patent for auto ex-  | Feb        | 4        | 17       | stalking a benzene rule  | Jan    | 11  | 35  |
| Benzene stocks plummet N<br>Ethylene inventories edge up N   | May    |      | 25<br>25 | haust catalysts R<br>Ethylene glycol: Massive restructuring                      | rec        | 1        | 11       | standards: USHA draft rule   |        |     |     |
| How companies are holding down in-   |        |      |          | in a 'crummy business' (charts)  | Mar        | 7        | 32       | could be new starting place . N<br>Butadiene's potential risks weigh-          | June   | 6   | 40  |
| ventories (charts) Keeping the warehouse empty — View-   | Feb    | 8    | 28       | Ethylene output heats up   | Jan        | 25       | 57       | ed   | Jan    | 4   | 44  |
| point  | Feb    | 8    | 3        | terN   | June       | 6        | 18       | Ethylene oxide: new, stricter stand-   |        |     |     |
| The prospects are mixed for tall oil   | Mar    | 1    | 20       | International forecast: A business pick-   |            |          |          | ards   | June   | 27  | 102 |
| Silver inventories rise . N<br>lon Exchange — Extracting uranium from  | Jan    | 18   | 28       | up for non-U.S. companies (charts & tables)                                      | Jan        | 25       | 64       | Worker right to know. The struggle   |        | 40  | 00  |
| phosphoric acid N  | Jan    | 18   | 38       | ITC ban on imports of silica-encapsu-  |            |          |          | moves into the courts<br>Lead exposure accord reached by                       | Apr    | 18  | 38  |
| Iowa State University — Conferences:<br>Making a university/industry match   | Feb    | 15   | 20       | lated lead chromate pigments up-<br>held; Du Pont patent infringement            |            |          |          | Asarco, USWA and OSHA N  | Feb    | 8   | 40  |
| maning a announcement of the control |        |      |          | suit against Toho and Nihon still  |            |          |          | OSHA broadens its consulting serv-   | June   | 27  | 102 |
| Iran   |        |      |          | pending  | June       | 6        | 17       | ices   | Julio  | 21  | 102 |
| Iran settles with Du Pont over expropri-<br>ation of Polyacryl Iran  | Jan    | 11   | 16       | plant building: will buy 50% share in  |            |          |          | inquiry Into Labor Dept. meetings<br>with chemical company officials N         | Ame    |     | 40  |
| U.S. may set export rules to counter   |        |      |          | Fuji Life Science  | Jan        | 25       | 57       | OCAW: A chemical union gets a new  | Apr    | 4   | 40  |
| chemical warfareN  | Apr    | 11   | 58       | Japan's chemicals: Not well but better (charts)                                  | Apr        | 11       | 51       | chief Joseph Mishrener at a trou-  |        |     |     |
| Iran-Iraq War — Hormuz: No chemical crisis yet (chart & map) Iraq — U.S. may set export rules to coun-   | May    | 30   | 26       | A lesson from Japan — Viewpoint  | Apr        | 11       | 3        | bled time (table)  | Jan    | 4   | 10  |
| Iraq — U.S. may set export rules to coun-  |        |      | 50       | MCI Rigid Disc, joint venture, will con-<br>vert aluminum smelter to make mag-   |            |          |          | OCAW looks to a three-way merger with United Rubber Workers and                |        |     |     |
| ter chemical warfareN  | Apr    | 11   | 58       | netic discs N  | June       | 13       | 34       | United Paperworkers N  | May    | 23  | 4   |
| irradiation  |        |      |          | Nitto Chemical Industry's acrylamide   |            | 11       | 30       | Right-to-know<br>Pennsylvania introduces right-to-know                         |        |     |     |
| EDB alternatives explored at Congres-  |        | 40   | 00       | plant will use biocatalyst N<br>Bacteria that catalyze acrylamide                | -thi       |          | 30       | legislation  | Mar    | 14  | 24  |
| sional hearings N  | May    | 16   | 68       | production   | May        | 16       | 44       | Worker right to know: The struggle moves into the courts                       | Apr    | 18  | 38  |
| FDA wants to give the nod to irradiated food as a possible EDB alternative. N  | Feb    | 22   | 50       | Petrochemical surge . N<br>Petrochemicals: past and present look                 | May        | 23       | 18       | Strikes  | Apr    | 10  | 30  |
| Monsanto will urge irradiating grain   |        |      |          | nond   | Feb        | 15       | 18       | Canada: paper mill workers in B.C.   |        |     | 44  |
| with electron beams instead of EDB treatment.  | Feb    | 22   | 9        | Plastics output rises N<br>Polychloroprene rubber dumped in                      | Feb        | 22       | 20       | strike<br>Laboratories — Energy Dept.'s Idaho                                  | Mar    | 21  | 10  |
| Some rays of hope for irradiating food   |        |      | 20       | U.S., Commerce Dept. finds N   | Feb        | 1        | 25       | Laboratory Facility consolidates exper-  |        |     |     |
| (chart)  | Apr    | 11   | 33       | Polyvinyl chloride capacity cuts made. N   | Mar        | 28       | 22       | imental programs   | June   | 13  | 34  |
| ates, swimming-pool chemicals: Chemical makers play hard-nosed polo in the   |        |      |          | Shin-Etsu Handotal will build silicon  | Mar        | 7        | 19       | Formica Brand Products Group and   |        |     |     |
| pool (chart & table)   | Mar    | 7    | 10       | plant at Livingstone, Scotland N<br>Sumitomo plant uses "special adsorb-         |            |          |          | trademark up for sale  | May    | 16  | 16  |
|  | .vien! |      | . •      | ent" to extract gallium from baux-   | Feb        | 22       | 32       | works a 60-hour week   | Jan    | 25  | 59  |
| Bistochaslamy lorest's thriving bistoch  |        |      |          | Swimming-pool chemicals: U.S. Com-   | 1.60       | 2.2      | UE       |  |        |     |     |
| Biotechnology: Israel's thriving biotech industry  | June   | 6    | 28       | merce Dept. rules against Japanese   | Mar        | 7        | 10       | CO <sub>2</sub> lasers: OTA is checking the safety                             |        |     |     |
| Bromine exports gear up N  | May    |      | 20       | Titanium dumping: USITC find dumping   | Mar        |          | 10       | of CO <sub>2</sub> lasers in surgery N<br>Laser-based variant of CVD: AAAS     | Jan    | 11  | 42  |
| Bromine exports gear up N<br>lon exchange method of extracting<br>uranium from phosphoric acid N   | Jan    | 18   | 38       | Titanium dumping: USITC find dumping from Japan and U.K.                         | Feb        | 1        | 25       | Laser-based variant of CVD: AAAS symposium                                     | June   | 6   | 34  |
| Israel Chemicals Ltd.: A bold expansion  |        |      |          | Toyo Ink goes after BASF's pigment<br>markets: modifying Fuji Pigment            |            |          |          | U.S. Air Force wants lasers that strip   |        |     |     |
| policy abroad pays off for ICL   | Feb    | 8    | 21       |  | May        | 2        | 20       | paint  | Apr    | 4   | 43  |
| Potash: World potash is moving again<br>(again)  | Mar    | 14   | 36       | Jojoba — Chemicals from 'wild' plants<br>Jordan — Potash: World potash is moving | May        | 16       | 30       | Latex — UC plans expansion at Torrance,<br>Calif. latex plant                  | May    | 30  | 17  |
| (again)  | May    |      | 18       | again (chart)  | Mar        | 14       | 36       |  |        |     |     |
| Thorium may be used to power light-<br>water nuclear reactors  | Mar    | 28   | 33       | ***************************************  |            |          |          | Latin America Chemical exports: At stake in the inter-                         |        |     |     |
| water nuclear reactors N<br>U.S. potash producers trying to dis-   |        |      |          |  |            |          |          | national banking rescue (charts)   | June   | 20  | 53  |
| courage offshore potash N  | Apr    | 11   | 38       | K  |            |          |          | Potash: World potash is moving again (chart)                                   | Mar    | 14  | 36  |
| italy<br>Alusuisse Italia's improved know-how  |        |      |          | K  |            |          |          |  |        |     |     |
| Alusuisse Italia's improved know-how   | Fab    | 00   | 00       |  |            |          |          | AFL-CIO's IUD plans funding for occu-  |        |     |     |
| for phthalic anhydride N  Dow sells diagnostics unit N   | Jan    | 29   | 28<br>20 | Kaolin — First U.S. clay-based metallic  | Enh        | 15       | 22       | pational disease lawsuits N<br>Agent Orange see Herbidices                     | June   | 20  | 74  |
| Dow sells diagnostics unit N<br>Enichem to purchase methanol from  | -      | -    |          | chlorides plant N  | reb        | 15       | 33       | Agent Orange see Herbidices<br>Agricultural patent reform bill: Glick-         |        |     |     |
| SABIC; exploring building petro-<br>chemical projects in Saudi Arabia . N  | him    | e 27 | 90       |  |            |          |          | man's bill — a 'fairer' bill for pesti-  |        |     |     |
| Enichimica to build polyethylene plant   |        |      |          |  |            |          |          | cide natents   | May    | 30  | 15  |
| at Sicilian Priolo complex N   | Feb    | 29   | 16       |  |            |          |          | Antiknock prices: Ethyl and Du Pont's<br>antiknock pricing practices upheld in |        |     |     |
| Fertimont will reopen ammonia plant at<br>Ferrara  | Jan    | 25   | 57       |  |            |          |          | court  | Mar    | 7   | 9   |
| Ferrara N<br>International forecast: A business pick-  |        |      |          | Labelles   |            |          |          | Antitrust see Antitrust Asbestos: an out-of-court fund for as-                 |        |     |     |
| up for non-U.S. companies (charts & tables)  | Jan    | 25   | 64       | Labeling Artists demand warning labels on their                                  |            |          |          | bestos claims (table)  | Apr    | 25  | 18  |
| Montedison buys 61% interest in Mira   |        |      |          | supplies   | Jan        | 18       | 39       | Asbestos: some relief for Manville and   | June   | 9 9 | 0   |
| Lanza N  | Ma     | y 30 | 18       | — Letter   | ма         | r 21     | 5        | asbestos claimants N   | June   | , 0 | 9   |
|  |        |      |          |  |            |          |          |  |        |     |     |

| Beker Phosphate in legal battle with  |      |                |    | PCBs see Polychlorinated Biphenyls  |      |       |      | impure mice N  | May 3    | 0    | 34       |
|---|------|----------------|----|---|------|-------|------|--|----------|------|----------|
| Florida's Manatee County property<br>appraiser over two floating dredges R      | May  | 23             | 17 | Pennsylvania antitakeover law, Share-<br>holder Protection Act, signed N<br>Pesticides see <b>Insecticides</b> — Pesti- | Jan  | 4     | 9    | Victims' compensation: Reagan with-<br>holds victims' compensation sup-                  |          |      |          |
| Betz suing Petrolite and four of Petro-   | Feb  | 1              | 13 | Pesticides see Insecticides — Pesti-<br>cides   |      |       |      | port   | Mar 2    | 8    | 48       |
| lite's salesmen Biotechnology: Congress pushes for                              |      |                |    | Pollution cases, legislation see Air<br>Pollution; Environment; Waste Dis-  |      |       |      | waste importation N  | Mar. 2   | 8    | 48       |
| biotechnology regulation N<br>Bolar Pharmaceutical prohibited from              | Mar  | 28             | 48 | posal: Water Pollution  |      |       |      | Lawn and Garden Chemicals — Sears,<br>Roebuck issuing warning to consumers               |          |      |          |
| selling product said to imitate Ciba-<br>Geigy's Apresazide: Supreme Court      |      |                |    | Radiation ruling precedent: Colorado<br>ruling involving Dow's Rocky Flats  |      |       |      | involving the use of Tri-Poxy garden sprayers  | June     | 6    | 17       |
| will not review decision R  | Mar  | 14             | 24 | Nuclear Weapons plant case R  | May  | 9     | 22   |  | ourie    | 0    |          |
| Chem-Dyne hazardous waste cleanup<br>case: Supreme Court will determine         |      |                |    | Resources Conservation and Recovery<br>Act  |      |       |      | Antiknocks see Antiknock Compounds   |          |      |          |
| whether companies can skirt a court<br>order for cleanup by filing for bank-    |      |                |    | EPA approves Delaware's hazard-<br>ous waste programN   | Jan  | 4     | 44   | Asarco, USWA and OSHA reach a lead<br>exposure accord N                                  | Feb      | 8    | 40       |
| ruptcyN   | Mar  | 14             | 58 | The new teeth in EPA's civil penal-   | oun  | -     |      | Canadian Parliament's subcommittee on  | 1 00     | 0    | 40       |
| Clean Air Act POM air pollution rule gets a 'no'                                |      |                |    | ties; setting fines for noncompli-<br>ance and for related financial  |      |       |      | acid rain advocating phasing out of<br>TEL by 1995 N                                     | June '   | 13   | 9        |
| vote  | Feb  | 22             | 50 | gains   | June | 13    | 36   | Lead acrylic polymer: A lower cost shield<br>from radiation                              | Apr :    | 25   | 69       |
| air standardsN  | Feb  | 29             | 40 | Pennsylvania introduces right-to-know   |      |       |      | Lead-in-gas see Gasoline   | ripi i   |      | 00       |
| Bill now includes acid-rain provi-  | Mar  | 21             | 84 | legislation R Worker right-to-know: The struggle  | Mar  | 14    | 24   | Leasing — Lab instruments for rent from<br>United States Analytical Instruments          | Jan      | 18   | 14       |
| EPA will not regulate toluene N   | May  | 30             | 40 | moves into the courts Searle Pharmaceutical withdraws court   | Apr  | 18    | 38   | Lignin — Commodities from biomass:   | Apr      | 4    | 36       |
| Clean Water Act<br>Florida leads the way in regulating                          |      |                |    | motion to stop Key's marketing of   |      |       |      | where we're headed<br>Limonene — Squeezing insecticides from                             | Apr      | 4    | 30       |
| toxics: new rules set levels for<br>137 chemicals in drinking water             | Apr  | 4              | 14 | theophylline antibronchial drug,<br>Theo-Dur R  | Feb  | 22    | 18   | oranges: fire ants, flies, fleas and weevils<br>succumb to oils extracted from citrus    |          |      |          |
| A bundle of bills for water pollution   |      | 2              | 44 | Shale Oil see Shale Oil<br>Skin lotion ad claims' nonruling: P&G  |      |       |      | peels<br>Liposomes — Joint program to develop  | June     | 27   | 20       |
| Amendments would loosen clean   | May  |                |    | and Chesebrough-Pond's can still  |      |       |      | liposome-based medicl products N   | Mar      | 28   | 33       |
| water rules N<br>EPA's toxic discharge rules upheld                             | May  | 23             | 40 | say they sell the best<br>Staggers Act: Keep the rails competi-   | June | 27    | 14   | Lithium — Lithium chemicals prices N Feb   | Apr      | 18   | 20       |
| by High Court N Amendments proposed N   | June |                | 40 | tive — Viewpoint  | Feb  | 22    | 3    |  |          | -    |          |
| Continental Illinois National Bank &  | June | 13             | 40 | Stauffer wins inspection suit against EPAN  | Jan  | 18    | 44   | Lithography Polysilanes as lithographic materials  |          | 30   | 22       |
| Trust suing Grace and Centex over<br>1980 loan to Grace for natural-gas         |      |                |    | Superfund "Joint and several" liability: 'The law   |      |       |      | X-ray lithography: synchrotron radiation .<br>Louisiana — A plan to rescue the Louisiana | Apr      | 18   | 23       |
| projects in Mississippi N   | June | 27             | 7  | is a ass' — Viewpoint   | Jan  | 18    | 3    | chemical industry (table)  | Jan      | 11   | 10       |
| Counterfeiting: legislation aims at curb-<br>ing products with bogus trademarks | May  | 2              | 16 | Seeking ways to speed the cleanup (table)   | Jan  | 18    | 32   | Louisiana State University — Microorgan-<br>isms that eat toxic chemicals N              | Mar      | 28   | 33       |
| Critical Agricultural Materials Act (CAMA): House deletes biotech,              | ,    |                | -  | - Correction  'Joint and several' stands firm:  | Feb  | 8     | 5    | Lubricants   |          |      |          |
| guayule rubber funds N<br>DES: Michigan Supreme Court rules                     | June | 13             | 40 | Chem-Dyne case ruling   | Jan  | 18    | 35   | Cable lubricant from Chevron will be   |          |      |          |
| DES: Michigan Supreme Court rules<br>that a group of 238 women can sue          |      |                |    | Reagan's budget calls for a Super-<br>fund extension  | Feb  | 1     | 42   | used on San Francisco cable cars . R<br>EG&G Automotive Research and Chev-               | Apr      | 25   | 22       |
| all 16 producers of DESR  | Feb  | 22             | 18 | Florio pushes a \$9 billion Superfund<br>billand unveils an EPA study on  |      |       |      | ron Chemical enter lubricant testing   | Mary     | 0    | 40       |
| Drug fraud: former employee of New York City Health and Hospitals Corp.         |      |                |    | Superfund's costs N   | Feb  | 15    | 48   | agreement R<br>Lysine — Rhone-Poulenc plans lysine                                       | May      | 2    | 19       |
| indicted in drug fraud scheme R<br>EPA's former waste program chief             | May  | 9              | 22 | Republicans offer their own Super-<br>fund bill: Lent version N   | Mar  | 7     | 40   | plants in France and U.S   | May      | 9    | 25       |
| Lavelle gets six-month sentence N   | Jan  | 18             | 44 | Congressional panel hears Super-  |      | 14    | 58   |  |          |      |          |
| EPA's pesticide rules see Environ-<br>mental Protection Agency                  |      |                |    | fund testimony  |      | 21    | 16   | M  |          |      |          |
| Export Trading Company Act (ETCA):<br>Export trading companies. Now banks       |      |                |    | An uphill battle for the Superfund program  | Apr  | 18    | 52   |  |          |      |          |
| are selling chemicals (table)   | June | e 27           | 92 | Clamor for change in Superfund's  |      |       |      | Magnesium — Dow increases magnesium  |          |      |          |
| Federal Insecticide, Fungicide and Ro-<br>denticide Act                         |      |                |    | tax base (chart)  | Apr  | 25    | 12   | production due to growth in automotive   | Mor      | 14   | 24       |
| Another pass at a 'passable' FIFRA bill N                                       | Jan  | 11             | 42 | ganize a voluntary cleanup pro-<br>gram for Superfund sites   | May  | y 16  | 22   | applications   | Mar      | 14   | 24       |
| Tightening up on emergency use of   |      |                |    | Clean Sites: A sight for sore eyes  |      |       |      | Magnetics MCI Rigid Disc, joint venture, will con-                                       |          |      |          |
| pesticides (table) Accord sought on the pesticide                               | Jan  | -              | 10 | Viewpoint     A pragmatic partnership geared  |      | e 6   | 3    | vert aluminum smelter to make mag-   | la sense | 12   | 24       |
| law R   | Feb  | 1              | 42 | for action on derelict dumps.  House gets a compromise Super-   | Jun  | e 6   | 10   | netic discs  | June     | 18   | 23       |
| stitutional? Supreme Court will de-<br>cide Monsanto-EPA dispute                | Mar  | 7              | 14 | fund bill   | Ma   | y 16  | 68   | Maintenance — Maintenance painting:<br>Numbers on the payoff — Du Pont's                 |          |      |          |
| A badly timed call for change -   |      |                |    | wardN   | Ma   | y 30  | 40   | program (chart)  | Apr      | 18   | 48       |
| Viewpoint The battle lines are being drawn over                                 | Mai  | 14             | 3  | Boston firm, Camp Dresser & McKee,<br>gets the largest Superfund con-   |      |       |      | Maieic Anhydride   | - 1      |      |          |
| FIFRA reform  | Mai  | 14             | 14 | tract   | Jun  | ne 13 | 40   | EPA seeks more test data N<br>Monsanto's capacity N                                      | Feb      | 29   | 40<br>25 |
| Congress pushes for biotechnology regulation N                                  | Mai  | r 28           | 48 | EPA is criticized for Superfund priori-<br>ties and sued over Superfund   |      |       |      | Prices N Jan 11-25, N  | May      | 9    | 60       |
| Florida land fraud case: four men ask<br>court to overturn their conviction R   | Mai  | r 28           | 19 | damage rules N The growing push to extend Super-  | Jun  | ne 20 | 74   | Management   |          |      |          |
| Florida land reclamation legislation  | -    |                |    | fund<br>Toxic Substances Control Act  | Jur  | ne 27 | 12   | American Cyanamid's Affleck retires;<br>Sella elected to the additional post             |          |      |          |
| rules phosphate processors must<br>pay all the costs                            | Jun  | e 6            | 15 | Benzene: EPA wants toxicity tests   |      |       |      | of chairman  | Apr      | 25   | 11       |
| Florida phosphate: Estech to drop law-<br>suit as Manatee County allows ac-     |      |                |    | for chlorinated benzenes N<br>Chlorinated terphenyl: EPA planning   | Jar  | 25    | 80   | Arco Chemical Europe: To build or not to build?  | Mar      | 28   | 39       |
| cess to documents which concern<br>company's quest for permits to oper-         |      |                |    | notification plans  | Api  | r 4   | 40   | Ashland Oil: Building a business on small business                                       | Apr      | 11   | 26       |
| ate phosphate mine  | Jan  | 25             | 9  | regulation N  | Ma   | r 28  | 48   |  | Apr      |      | 5        |
| GAF vs Werner: Another lawsuit on the docket                                    | Apr  | 4              | 9  | Dow will supply EPA with internal data from Midland, Mich. plant  |      |       |      | Avtex steps out in style with specialty fibers   | Ma       | / 16 | 52       |
| 'Golden parachutes': bill would impose<br>excise tax on payments under 'golden  |      |                |    | ending three-year dispute N<br>EPA moves to fast track formalde-  | Ap   | r 4   | 40   | Beker Industries' Erol Y. Beker, presi-<br>dent and COO: The other Beker is              |          |      |          |
| parachute" contracts N  | Ma   | r 14           | 11 | hyde under TSCA N   | Ma   | y 23  | 40   | now COO at Beker   | Feb      | 1    | 34       |
| Groundwater: EPA sets ground rules<br>for groundwater                           | Jar  | 11             | 14 | EPA will wait for the results of ethyl-<br>ene oxide tests  | Jai  | n 11  | 42   | Biotechnology: Steven James Lee, new<br>president of Repligen; John E. Don-              |          |      |          |
| Industrial Bio-Test Laboratories sen-<br>tences for three former employ-        |      |                |    | Industry worries about biotechnol-<br>ogy rules   | Ap   | r 18  |      | alds, president and chief executive<br>officer of Collaborative Research . N             | Ma       | y 16 | 11       |
| ees   | Ap   | r 18           | 17 | NIH seeking comments on regulat-  |      |       |      | Brent Chemicals Corp.'s Emilio A. Sav-   |          | ,    |          |
| Italy: trial against Montedison execu-<br>tives, involving cancer deaths at     |      |                |    | ing biotechnology   | Ma   | ay 2  | 44   | inelli, president and chief executive<br>officer: For BBC, no easy road to a             |          |      |          |
| Acna plant, is rescheduled N<br>Acna's two ex-directors receive                 | Fe   | b 8            | 17 | TSCA chemicals  | Ma   | ar 7  | 40   | turnaround<br>Calgene: Adding market savvy to a bio-                                     | Jun      | e 13 | 21       |
| suspended sentences N   | Ap   | r 25           | 25 | The industry is divided over protec-  |      |       |      | tech startup; two new executives,  | la.      |      | 40       |
| Kerr-McGee loses the latest Silkwood ruling                                     |      | n 18           | 44 | tionism (charts)  |      | ar 28 | 3 34 | Roger H. Salquist and John Callahan<br>CdF Chimie holds low cards, bets high.            | Apr      | 11   | 13<br>30 |
| Lead-in-gasoline see Gasoline<br>Monsanto's Nitro, W. Va. dioxin-expo-          |      |                |    | (H.R. 4784): House acts to beef up  |      | ur 40 | 50   | Celanese Mexicana: How Celanese<br>Mexicana has beaten the odds                          | Ma       | y 16 | 47       |
| sure lawsuit: USWA will help finance  |      |                |    | antidumping laws N<br>Trademark Counterfeiting Act of 1983:   | Ap   | or 18 | 52   | ChemDesign: 'Buy American' — firm  |          |      |          |
| trial for plaintiffs  | Ju   | ne 13          | 9  | legisltion aims at curbing products<br>with bogus trademarks  | M    | ay 2  | 2 16 | stresses reprographic chemicals Chemed: An independent Chemed hits                       |          | r 21 | 14       |
| Ocean shippers get antitrust immunity   | Ma   | ar 14<br>ar 14 |    | UNC Resources court settlement gives  |      | , .   |      | the acquisition trail.  Chevron Chemical will restructure op-                            |          | ne 6 | 23       |
| Oil-company mergers legislation<br>Pacific Chemical Products files dam-         |      | . , 4          | 13 | Standard Oil (Calif.) a stake in the<br>uranium business; General Atomic<br>will assume UNC's obligation to re-         |      |       |      | erations of its Ortho Agricultural   | 8.4-     |      | 47       |
| age suit against the installers and<br>providers of new telephone sys-          |      |                |    | pay uranium to a utility company N  | Ju   | ine 6 | 6 9  | Chemicals Div  | Ma       | y 23 |          |
| tem   | Ju   | ne 13          | 17 | University of Wisconsin-Madison settles<br>suit with Charles River Breeding   | 3    |       |      | Oil of Calif. effective July 1 N<br>Compensation: A seller's market for                  | Ма       | y 9  | 11       |
| PBBs see Polybrominated Biphenyla   |      |                |    | Laboratories over sale of genetically   | ,    |       |      | outside directors (charts)   | Fe       | b 1  | 32       |

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| choice for a group president.  Seeling yoursels as students see you Seeling yoursels as students see you Seeling yoursels as students see you Apr 18  | June 27 90              |
| Seeing 'yoursels' as students see you — Viewpoint — Vi | Jan 11 42               |
| Stauffer's reorganization: Morley, chairman and chilef operating officer, Davis and Stern vice-chairmanship positions Strategic planning conference: No the experts plan strategy (table) SOCMA's Robert A. Lang: SOCMA's 20-year man works a 60-hour week Uniroyal's Bogislav von Schmeling, vp   |                         |
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| Strategic planning conference: How the experts plan strategy (table). Mar 28 11 Immunolmaging for identifying malignant tumors. N June 13 34 Menthylpyrionines — EPA seeks more test data N Feb 29 According to the conference of th | Apr 25 30               |
| SOCMA's Robert A. Lang: SOCMA's Zo-year man works a 60-hour week Jan 25 Joint program to develop liposome Uniroyal's Bogislav von Schmeling, vp  anal tumors N June 13 34 Joint program to develop liposome Dased medical products N Mar 28 3 A crucial time for high-tech styrene   | Feb 29 40               |
| Uniroyal's Bogislav von Schmeling, v-p based medical products N Mar 28 33 A crucial time for high-tech styrene   |                         |
|  |                         |
|  | June 6 20               |
| chemicals: An agchem chief with deep farm roots  |                         |
| Uniroyal realigns senior management N Apr 11 11 for chemicals and hardware (table) Feb 29 30 at Baton Rouge N Apr 18   | Apr 18 20               |

| Mexico<br>Celanese Mexicana: How Celanese  |            |      |          | National Assn. of Chemical Distributors   | Jan   | 11   | 34       | NGL: The looming LPG glut. John M.   | May 2   | 2  | 32       |
|--|------------|------|----------|---|-------|------|----------|--|---------|----|----------|
| Mexicana has beaten the odds   | May 1      | 16   | 47       | Toward closer ties with distributors .     National Assn. of Investors Corp. —     Investor relations. Courting with more | Jan   |      | 34       | Winton (charts, table, map)  OPEC natural gas use study: "World Natural Gas: What Role for | may a   |    | JE.      |
| national banking rescue (charts)   | June :     | 20   | 53       | finesse (tables)  | Feb   | 15   | 34       | OPEC?" N   | Feb 2   | 2  | 20       |
| Ford plans assembly plant N<br>Foreign investment: Mexico's bid for              | Jan        | 18   | 9        | National Assn. of Manufacturers —<br>Fatent bill supported by industry N  | Apr   | 11   | 58       | Pipeline pressure will generate elec-<br>tricity N   | Jan 1   | 1  | 32       |
| foreign cash   | Feb 2      | 29   | 11       | National Assn. of Purchasing Manage-  |       |      |          | Prices   |         |    |          |
| International forecast: A business pick-<br>up for non-U.S. companies (charts &  |            |      |          | ment — Heffernan on inventories:<br>companies reducing the number of  |       |      |          | Canadian feedstocks: 15% reduc-<br>tion in the price of natural gas                        |         |    |          |
| tables) Michigan State University — Forest bio-                                  | Jan :      | 25   | 64       | their suppliers   | Feb   | 8    | 32       | feedstock and switch to the use of<br>propane and butane recom-                            |         |    |          |
| technology symposium: Trees may be   |            |      |          | criticized for Superfund priorities N   | June  | 20   | 74       | mended   | Feb 1   | 5  | 15       |
| cultivated for their chemicalsbut it also may prove costly                       | June :     | 20   | 26       | National Bureau of Standards  |       |      |          | hope for new pricing plan for  |         |    |          |
| Microorganisms — Microorganisms boost<br>the production of threonine N           | Apr        | 11   | 30       | Body-calcium research: joint research<br>with NIDR  | May   | 30   | 34       | crude oil and natural gas N<br>A challenge to gas deregulation: pro-                       | May     | 9  | 25       |
| Middle East — Potash: World potash is  |            |      |          | Center for Advanced Research in Bio-  | Ividy | 30   | 34       | ducers balk at legislation to freeze   | Admir C |    |          |
| moving again (chart). Middle East see also individual countries                  | Mar        | 14   | 36       | technology, CARB: new biotech cen-<br>ter allies diverse groups   | Feb   | 22   | 16       | decontrol for two years  | May 2   | 3  | 11       |
| Milk Industry Foundation — How plastics  | Enh        | 1    | 45       | Conferences: Making a university/in-  |       |      |          | Chimie's Cartalas says the com-<br>petition from Dutch producers is                        |         |    |          |
| are taking over the milk bottle (chart)<br>Mining — FMC trona project in Wyoming | Feb        |      | 15       | dustry match A definitive way to measure creati-  | Feb   |      | 20       | still "unfair"   | June    | 6  | 16       |
| delayed by water worries N<br>Missiles — A chemical push from the MX .           | Jan :      | 25   | 9        | nine  | Feb   | 22   | 32       | French fertilizer producers of-<br>fered a break on natural gas                            |         |    |          |
| Molding  |            |      | -        | Health Sciences — Lamb's test: Prob-  | Eah   | 15   | 26       | rates from Gaz de France N<br>In prospect: lower fuel and feedstock                        | June 1  | 3  | 20       |
| DSM's RIM process to make nylon 6 . N  |            |      | 78       | ing chemical causes of infertility<br>National Institute of Dental Research —   | Feb   | 15   | 26       | costsN   | Jan 1   | 8  | 9        |
| Injection-molded metal N<br>Molybdenum — Amax to reopen Climax                   | Apr        | 4    | 34       | Body-calcium research: joint research with NBS  | May   | 30   | 34       | A ruling will force natural gas re-<br>funds   | Mar 2   | 28 | 48       |
| molybdenum mine near Leadville,  | Mar        | 14   | 24       | National Institute of Mental Health —   | inay  | 00   | •        | Trunkline LNG imports from Algeria:<br>DOE ends proceedings N                              | Mar 2   |    | 84       |
| ColoR  | Mar        | 14   | 24       | Soliciting grant applications for anti-<br>depressant drugs for treating anxiety  |       |      |          | Unimar bid for acquisition of Enstar   |         |    | -        |
| Monoclonal Antibodies Blood-clotting protein: A wide-open field                  |            |      |          | disorders   | Jan   | 18   | 18       | meets resistance N   | May 3   | 30 | 9        |
| in the race for factor VIII  | Jan        | 11.  | 22       | and Health—PCBs get a good report . N<br>National Institute of Public Health (Neth-                                       | Jan   | 4    | 29       | Natural Resources Defense Council  |         |    |          |
| Hepatitis-B monoclonal assay from<br>Centocor approved by FDA N                  | June       | 27   | 96       | erlands) — Methyl bromide: Challenges   |       |      |          | EPA is criticized for Superfund prior-   | June :  | 20 | 74       |
| Hybritech making human monoclonals<br>for hepatitic B                            | Jan        | 11   | 32       | for EDB substitutes   | Apr   | 4    | 14       | Formaldehyde suit against EPA: For-  | June /  | 20 | 14       |
| Immunoimaging for identifying malignant  |            |      |          | National Institutes of Health   |       |      |          | maldehyde's run for life on the 'fast<br>track' (table)                                    | May :   | 30 | 10       |
| tumors   | June       | 13   | 34       | Field-tests of r-DNA products: environ-<br>mentalists demand impact state-  |       |      |          | High Court upholds EPA's toxic dis-  |         |    |          |
| BioResponse to produce kilogram  |            |      |          | ments   | Feb   | 29   | 35       | charge rules   | June    | 6  | 40       |
| quantities for purifying proteins and<br>fighting disease                        | Mar        | 28   | 28       | Genetic frost-resistance test may be<br>blocked by environmentalists N  | Apr   | 25   | 76       | ticides level? (table)   | Mar :   | 28 | 16       |
| Medical diagnostics. A red-hot market<br>for chemicals and hardware (table)      | Feb        | 29   | 30       | Federal court stops an open-air DNA experiment.   | May   | 23   | 40       | Netherlands  |         |    |          |
| - Letter   |            | 28   | 5        | More oil on the r-DNA field-testing   |       |      |          | Fertilizer squabble: CDF Chimie's  |         |    |          |
| Monoclonals differentiate between can-<br>cersN                                  | May        | 16   | 44       | New effort to stop open-air r-DNA   | June  | 13   | 14       | Cartalas says the competition from<br>Dutch producers is still "unfair"                    | June    | 6  | 16       |
| Self-diagnostic ovulation test goes to<br>the market                             | Apr        | 25   | 30       | experiments   | June  | 27   | 102      | GE expands polycarbonate plant in  | Mar     |    | 24       |
|  | . 40.      |      | 00       | evaluate its role N   | Jan   | 18   | 44       | International forecast: A business pick-   | Mai     | 14 | 24       |
| Monomers Acrylamide monomer prices N   | June       | 27   | 16       | r-DNA committee readies for a showdown N  | Feb   | 15   | 48       | up for non-U.S. companies (charts & tables)  | Jan     | 25 | 64       |
| Celanese will expand MFM capacity at<br>Pampa, Tex                               | Apr        | 4    | 16       | Let's keep RAC in charge - View-  | Feb   |      | 3        | National Institute of Public Health study  | -       | 4  | 14       |
| Nylon: Weighing the risks of nylon-  |            |      |          | Regulatory chaos looms  | Feb   |      | 35       | on methyl bromide  New York's Center for Public Resources—                                 | Apr     |    | 14       |
| wrapped food   | May        | 23   | 13       | A call for comments on regulating   | May   | 2    | 44       | Asbestos claims  | Apr     | 25 | 18       |
| ize St. James, La. styrene monomer<br>plant                                      | Feb        | 22   | 18       | RAC approves USUHS gene project to  | may   | 6    |          | New Zealand  |         |    |          |
| Styrene monomers: A crucial time for   |            |      |          | combat dysentery, biological warfare<br>debate erupts   | Feb   | 15   | 12       | Methanol plant cranks up N   | Mar     | 28 | 42       |
| 'high-tech' styrene (charts)   | June       | 0    | 20       | National Petroleum Refiners Assn. —<br>Benzene inventories trend down-  |       |      |          | Stauffer restrained from activity for gly-<br>phosate-based Touchdown herbi-               |         |    |          |
| at Scotford, Alta. nears completion . N<br>Styrene monomer prices N Feb 1-25 . N | Jan<br>May | 9    | 16<br>60 | wardN   | Feb   | 22   | 28       | cide   | June    | 20 | 23       |
| Texaco to sell cationic monomers bus-  |            |      |          | National Research Council   |       |      |          | less nickel facility doubles plating   | Many    | 22 | 17       |
| iness to Virginia Chemicals N<br>VAM: EC tightens the trade screws;              | Mar        |      | 9        | Report finds too little toxicity data for   |       |      |          | Nigeria - Petrochemical units start  | May     | 23 | 17       |
| new tariffs (table)  VCM: OxyChem will buy capacity in                           | Jan        | 25   | 17       | TSCA chemicals  | Mar   | 7    | 40       | building   | Apr     | 11 | 24       |
| Louisiana  | Jan        | 25   | 12       | fuels facility (table) Transportation Research Board looking  | Jan   | 4    | 14       | controlling emissions alone N  | Apr     | 18 | 52       |
| VCM prices N Feb 1-25, N Mar 14-34,<br>N Mar 21-65, N May 16-51 N                | May        | 30   | 24       | at the use of calcium magnesium   |       |      |          | Millenger  |         |    |          |
| Vinyl monomer prices N<br>Monosodium Glutamate — Stauffer Chem-                  | Apr        | 18   | 20       | acetate as a road deicer  | Mar   | 28   | 14       | Nitrogen Air Products plans nitrogen gas plant at  |         |    |          |
| ical will halt output, close plant in San  |            |      | _        | on engineering research centers: re-  |       |      |          | Austin, Tex. R Algae could halve the cost of nitrogen                                      | Feb     | 15 | 16       |
| Jose, Calif  | Feb        | 29   | 5        | port from National Academy of Engin-<br>eering  | Mar   | 7    | 30       | fertilizer N   | Apr     | 11 | 30       |
| U.S. Export-Import Bank  | May        | 9    | 60       |   |       |      |          | Argentina: nitrogen fertilizer unit pro-<br>posed  | Feb     |    | 20       |
| Pace, Fla. complex   | Apr        | 4    | 16       | National Toxicology Program<br>Lamb's test: Probing chemical causes   | -     |      |          | Atmospheric gas output climbs N<br>Atmospheric gases: Sales are up, but                    | Feb     | 15 | 25       |
|  |            |      |          | of infertility  | Feb   | 15   | 26<br>14 | margins are thin for air gases   | Feb     | 22 | 24       |
| N  |            |      |          |   |       |      |          | Fertilizers: a bleak outlook for nitrogen fertilizers                                      | June    | 6  | 35       |
|  |            |      |          | Natural Gas Australian natural gas pipeline pro-  |       |      |          | A fertilizer forecast as high as an elephant's eye: FI annual meeting                      |         |    |          |
| Naphtha — Feedstock prices: Euro-  | Fab        |      | 00       | posed by CSR N  | Jun   | e 27 | 90       | (chart)  | Feb     | 22 | 10       |
| National Academy of Engineering —  | Feb        | ,    | 20       | BioTechnical International forms U.K.<br>affiliate to develop products and  |       |      |          | Fertilizer forecast from USDA N<br>Fertilizer movement maintains momen-                    | Mar     | 7  | 24       |
| Advice on engineering research centers   | Mar        | 7    | 30       | technologies for use in natural gas<br>production from solid waste. R   | Ma    | 28   | 19       | tum N<br>Fertilizer shipments post a gain N  | May     | 16 | 51<br>57 |
| National Academy of Sciences - Govern-   | rental     | ,    | 50       | Canada's Nova shines, but less bright-  |       |      |          | Gas production soared in 1983 N  | Mar     | 21 | 65       |
| ment-University Industry Research<br>Roundtable established                      | May        | 16   | 44       | A clearinghouse for natural gas: Morgan   | Jun   | e 27 | 88       | Germany's Hoechst backs away from<br>fertilizers   | Apr     | 25 | 25       |
| National Aeronautics and Space Adminis-<br>tration — Aerojet's carousel exposing |            |      |          | A clearinghouse for natural gas: Morgan<br>Stanley with Transco Energy and  |       |      |          | Industrial gases heat up in Europe<br>Liquid Air plans air separation plant in             | Mar     | 21 | 66       |
| materials to the rigors of space N   | June       | e 13 | 34       | Akin, Gump, Strauss, Hauer & Feld<br>plans to open the U.S. Natural Gas   |       |      |          | Orlando, Fla   | Feb     |    | 17       |
| National Agricultural Chemicals Assn.  |            |      |          | Clearinghouse Continental Illinois National Bank &  | Jur   | e 27 | 9        | Liquid nitrogen: prices N Apr 11-38, . N<br>Nitrogen Dioxide — EPA review retains          | Apr     | 18 | 20       |
| Conservation Foundation's "State of  |            |      |          | Trust suing Grace and Centex over   |       |      |          | nitrogen dioxide standards N   | Feb     | 29 | 40       |
| the Environment": High marks for a<br>cleanup report                             | June       | e 20 | 17       | 1980 loan to Grace for natural-gas projects in Mississippi  | Jur   | e 27 | 7        | Nitrogen Oxides — EPA leaves standards<br>for nitric acid plants alone N                   | Apr     | 18 | 52       |
| EPA to delay issuing effluent guidelines<br>for pesticide industry               |            | 11   | 16       | projects in Mississippi   |       |      |          | Nitroparaffins — Angus Chemical and<br>Isochem joint venture will build plant in           |         |    |          |
| FIFRA: The battle lines are being drawn  |            |      |          | WyomingN  | Jur   |      | 9        | WalesN   | Feb     | 1  | 9        |
| over FIFRA reform NRDC pesticides report: Early com-                             |            | 14   | 14       | Hydraulic fracturing in Colorado N<br>Imports: DOE seeks competitive prices   | Jar   |      | 29       | North Dakota State University — How<br>ultrasound 'catalyzes' catalysis:                   |         |    |          |
| ments (table) . New safety program for farm workers                              | Mar        | 28   | 16       | in natural gas imports N<br>Liquid gas spills to be simulated at test   | Fel   | 29   | 40       | Boudjouk research  | Jan     | 18 | 29       |
| exposed to pesticidesN   | Mar        | 7    | 40       | facility to be built by EPAN  | Ma    | r 14 | 58       | Norway — Jacobs Engineering licenses<br>Norsk Hydro Fertilizers' processes N               | Mar     | 7  | 30       |
|  |            |      |          |   |       |      |          |  |         |    |          |

| Conception of Endower price   Price   April 2   17   17   18   18   18   18   18   18  | Nylon   |       |       |    | Atmospheric gas output climbs N                                       | Feb 1      | 5    | 25       | claims patent infringement by Sumi-  |       |       |    |
|--|---|-------|-------|----|---|------------|------|----------|--|-------|-------|----|
| Pubmit Salet contenting  | Badische unit at Bridgeport, N.J.:                                    | May   | 2     | 12 | Atmospheric gases: Sales are up, but                                  |            |      |          | tomo Electric  | Арг   | 18    | 17 |
| District Search Concentration    Comparison   Comparison  | Carpet yarn and fiber prices N  | Apr 2 | 25    |    | Gas production in 1983 N  | Mar 2      | 1    | 65       | Mohay and Peachtree Doors are  |       |       |    |
| Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Seriety and Health Advantage Control of Series (1997)  - Cocceptional Series (1997)  - Cocception Serie | tests on a nylon precursor N  |       |       |    | Liquid Air plans air separation plant in                              |            | 1    |          | Forest Labs: patent for Synchron tech-   | June  | 6     | 11 |
| Content of the production   1  | Emser Industries' resin compounding                                   | Mar   |       |    | Orlando, Fla.   | Feb<br>Apr | 1    |          | nology for the controlled release of<br>drugs validated                        | Jan   | 11    | 16 |
| Conceptional Setty and Health Ad-  | operation at Sumter, S.C. plant R                                     |       |       |    | Membrane modules for oxygen produc-                                   |            |      |          | Gene-splicing group, Assn. of Biotech-   |       |       |    |
| Procedure of the process of the pr   | ICI offers bylon for tire production N                                |       |       |    | nologyN   | Feb        | 8    | 34       | patent approval N  | Feb   | 22    | 50 |
| Packaging used facility  Occapational Earliery and Health Advanced Theorem 3. Gold-A head, degrate with very window years flowers a company of the conventional statement of the conventional property of the conventio | wrapped food  | May : | 23    | 13 |   |            |      |          | tect its PVC technology N  | Mar   | 7     | 9  |
| Packaging used facility  Occapational Earliery and Health Advanced Theorem 3. Gold-A head, degrate with very window years flowers a company of the conventional statement of the conventional property of the conventio | nylon 6   | Mar   | 21    | 78 | P   |            |      |          | used trade secrets of Johns-Manville   |       |       |    |
| Packaging   Pack   | Nylon 6/6 — Celanese stakes out a new resins facility                 | Feb   | 8     | 9  | •   |            |      |          | in manufacture of fiberglass insula-   | Jan   | 4     | 15 |
| Agrilland Selection of Selectio |   |       |       |    | Packaging   |            |      |          | Japan starts work on computerizing   | Feb   | 15    | 18 |
| Comparisonal Safety and Health Administration  | 0   |       |       |    | Aseptic packaging's hot entry: Real                                   |            |      |          | Membrane patents agreement signed  |       |       |    |
| April   Comparison   Comparis   | •   |       |       |    | containers that are sterilized with                                   | 84-11      | 0    | 45       | Monsanto sues Stauffer over herbicide  |       |       |    |
| March   Comment   Commen   | Occupational Safety and Health Ad-                                    |       |       |    | - Letter  | June       | 27   | 5        | Monsanto wins Round One in patent  | Jan   | 25    | 19 |
| Search   S   | ministration<br>Auchter, Thorne G., OSHA head, de-                    |       |       |    | to the conventional tin can R   | Apr        | 11   | 23       | herbicide N  | Feb   | 22    | 9  |
| Contents and process to the contents of the co | parts with very mixed reviews N                                       | Mar   | 14    | 58 | ease up on child-proofing of pesti-                                   |            |      |          | — Letter   |       |       | 5  |
| Constant   Content   Con   | safety and health record at seven                                     | Ech   | 22    | 10 | cides   | Jan        | 11   | 42       | Round three: New Zealand court   |       |       |    |
| Worker right its show. The stronger works in the Stronger with Labor College and College   | Consulting services broadened N                                       |       |       |    | interest in Attradec and Copelplast                                   |            |      |          | glyphosate-based Touchdown her-  | lune  | - 20  | 00 |
| moves into the courts court into Locuts court in | Worker right to know. The struggle                                    |       |       |    | nology for Menu Box R   | June       | 13   | 17       | Nalco Chemical reaches out-of-court  | June  | 120   | 23 |
| Guity find Labor Dopt. meetings with No. Apr 4 40 Solf-Apr each between CDHA characters and the Solf-Apr 11 23 Solf-Apr 12 Sol | "Serious affront" to a congressional in-                              | Apr   | 18    | 38 | minate joint project to make alumi-                                   |            |      |          | natent infringement suits R  |       |       |    |
| Octobermodiphenyl Colde - Elhyl eventual coldens of the coldens of | quiry into Labor Dept, meetings with                                  | Anr   | 4     | 40 | Food packaging: For plastics, new ac-                                 | Apr        | 11   |          | Patent bill supported by industry N<br>Pesticides: 'Fairer' bill for pesticide |       |       |    |
| Labeling see Labeling.  Apr 11 23  Apr 12 23  Apr 13 23  Childroo of Technology Assessment Act an analogue in adapting the process of the pro | OSHA see also Labor — OSHA  |       |       |    | — Letter  |            |      |          | Pennsylvania State University — More   | May   | 30    | 15 |
| Office of Technology Assessment port   | panding flame retardants capacity at                                  | Apr   | 11    | 22 | Labeling see Labeling   |            |      |          | jobs but tight money   | May   | 23    | 17 |
| Acid rain endangers health, says report of control proportion of the formation of the control of |   | Apr   | 11    | 23 | grants license to MitsubishiR   | Mar        | 28   | 19       | tives: EPA action expected soon N  | June  | 9 27  |    |
| Bolischnology report: 10 ensure be- tach's fature – Viewpointil on Study of possible reproducities board in wortprinces amounced by the reproducities board in wortprinces amounted by the reproducities between the reproducities and the reproducities between the reproducities and the reproducities between the reproducities and the reproducit | Acid rain endangers health, says re-                                  |       |       |    | wrapped food  | May        | 23   | 13       | Peptides — Peptide synthesizers agree-   | Julia | 1 10  | 24 |
| shech's future — Viewpoint for the control of the c | port  | June  | 27    |    | tainer (chart)  |            | 1    |          | Vega Biotechnologies N   | June  | 9 27  | 96 |
| Study of possible reproductive hazards associated with chemicals found in Chemical possibility of possible reproductive with chemicals found in Chemical possibility of the Chemical possibility of th | tech's future — Viewpoint   | Feb   | 1     | 3  | Plastic films: A bullish forecast for flexi-                          |            |      |          | by McGregor  | Feb   | 1     | 14 |
| associated with chemicals cloud in workplaces anounced with chemical sequences anounced by the company of the c | ogy (chart)   | Feb   | 1     | 21 | Plastics' push for chemical packaging .                               | Feb        | 14   | 24<br>50 | Persian Gulf — Hormuz: No chemical crisis vet (chart & map)                    | May   | 30    | 26 |
| Choin — A qualet for high-thich ventures: Program to a tratted enterprises, the Thomas Aiva Edison Program (table)  May 23 14  Paint  Class Agriculture Fording Dowell into Dowell Schumpter Feb. 29 16  Cliss Agriculture Fording Dowell into Dowell Schumpter Feb. 29 16  Cliss Agriculture Fording Dowell into Dowell Schumpter Feb. 29 17  Cliss Agriculture Feb. 29 18  Cliss Agriculture Feb. 29 18  Cliss Agriculture Feb. 29 18  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agriculture Feb. 29 19  Cliss Agriculture Feb. 29 19  Agricul | associated with chemicals found in                                    | Eab   | 15    | 26 | thalate   |            |      |          |  |       |       |    |
| Thomas Arva Edison Program (table)  May 23 14  Path  Clis-Reigy forming Automotive Paint Technical Services unit Not and Services unit Technical Services unit Not state see Shahe Oil  Oils & Fats  Chemicals from wild plants  C | Ohio — A quest for high-tech ventures:                                | 1.60  | 10    | 20 | Packing — Packing's growing role in distillation (diagram)            | June       | 13   | 18       | P&G: Getting poised for big new  | .hun  | e 27  | 12 |
| Cita-Gelgy forming Autonotive Paint Fedning Dowell into Dowell Schlum- Dergor Design   | Thomas Alva Edison Program (table)                                    | May   | 23    | 14 |   | 00110      |      | 10       | Skin lotion ad claims' nonruling: P&G  | -     |       |    |
| Coatings markets continue strong. No Coatings shipments rae and value of the Coatings rate of the Coatings shipments rae and value of the Coatings rate of th | Oil-Field Services  |       |       |    | Ciba-Geigy forming Automotive Paint                                   | Mess       | 10   | 44       | say they sell the best   | Jun   | e 27  | 14 |
| Olis lurie for urethane makers Shale Oil Olis flare set Shale Oil Olis A Fats Olis A Fats Chemicals from wild plants The prospects are mixed for tail oil SOM's bet for the flat set of the calibrid seal. John M. Air Force In Boybean oil prices N Feb 22-28. Nay 2 Supezering insecticides from ranges: fire ants, files, fleas and weevils succurrib to the oils extracted from citrus peal.  Dielina The looming LPG glut. Clelin makers will be in the calibrid seal. John M. Air Production: between the calibrid seal. John M. Air Production: between the calibrid seal. John M. Air Production: between the calibrid seal. John M. Air Production: the month production soars will be in the calibrid seal. John M. Air Production: the month production soars for major organics Organics set a scorching pace on processing organic materials Organics steries — 3M plans to such sa series of tests on the effects of space on processing organic materials Orboxylene — Alusuisse italials improved know-how for pithalic ansers are mixed for the calibrid search of the calibrid  | berger  | Feb   | 29    | 8  | Coatings markets continue strong N                                    |            |      |          | Pesticides see insecticides  |       |       |    |
| Olleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. John M. Writton (charts, table, map) May 16 30  Oleffas The looming LPG glut. Olefin makers will be in the calbrid seat. In the calbrid seat of the makers will be in the calbrid seat. In the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat. In the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calbrid seat of the makers will be in the calb | Oils' lure for urethane makers  | Apr   | 25    | 16 | scarsN  | Jan        | 25   | 24       | Petrochemicals Benzene see Benzene   |       |       |    |
| Chemicals from wild plants The prospects are mixed for tail oil SCM's bet on tall oil specialities: full SCM's bet on t |   |       |       |    | sharp pencils (charts)  | Apr        | 4    | 10       | Canada's Nova shines, but less brightly  |       |       |    |
| SCM's bet on tail oil specialities full ownership of Sylvachem (Sylvachem (Sylvachem) (Syl | Chemicals from 'wild' plants  |       | 16    | 30 | ICI acquires French paintmaker, Com-<br>pagnie des Vernis Valentine N | Apr        | 25   | 25       | Canadian producers hope for new  |       |       | -  |
| Soybean oil prices N Feb 22-28. N Squeezing insecticides from cranges and committed to the oils extracted from citrus peal accumit to the oils extracted from citrus peal accumit to the oils extracted from citrus peal accumits to the oils oil page to the prices of the page of the pa | SCM's bet on tall oil specialties: full                               |       |       |    | Lasers that strip paint wanted by U.S.<br>Air Force                   | Apr        | 4    | 34       | gas  |       |       |    |
| succumb to the oils extracted from circlus peel June 27 20 Jun     | Soybean oil prices N Feb 22-28, N                                     | May   | 2     |    | Maintenance painting: Numbers on the                                  |            | 18   |          | Chattem to sell Petrochemicals sub-  |       |       |    |
| Ciltrus peel June 27 20 Valspar to buy Mobil Chemical's U.S. and Canadian industrial-coaling May 23 4 May 23 2 June 26 Tolocalino, chards, table, map) May 2 1 2 June 27 May 2 May 2 3 May 2        | fire ants, flies, fleas and weevils                                   |       |       |    | UC starts up Bound Brook, N.J. plant                                  |            |      |          | China puts priority on petrochemical   |       |       |    |
| The looming LPG glut. Olefin makers will be in the catbird seat. John M. Winton (charfs, table), map)  May 2 32 Prices.  Production rebound falls short N. Perb 8 24 Production rebound falls short N. Perb 8 24 Prices.  Organic Chemicals  Organic Seat a scorching pace N. Partition coefficients are available on line  N. Production for granics rises sharply N. Production for granics seat a scorching pace N. Production coefficients are available on line  N. A strong first-quarter showing for organics are available on processing organic materials  Organic Materials—A plane to launch of granic materials are proved know-how for phthalic anhydride  Organic Materials—A plane to launch of granics seat short materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch of granic materials anhydride  Organic Materials—A plane to launch  |   | June  | e 27  | 20 | Valspar to buy Mobil Chemical's U.S.                                  | 1.00       | 20   | 12       | Ethylene glycol see Ethylene Glycol  | ма    | y 16  | 29 |
| The looming LPG glut. Olelin makers will be in the catibrid seat. John M. Winton (charts, table, map) Prices. Production: rebound falls short N Feb 8 Pare sea also Pulp & Paper A British Report N Feb 8 Pare sea also Pulp & Paper and plastic vie for the milk container (reform). I Feb 1 Pare Xylene Exxon Chemical Americas boosts capacity at Baytown, Tex. R Prices: sellers struggle on the price front N Feb 9 Pare Xylene Exxon Chemical Americas boosts capacity at Baytown, Tex. R Prices: sellers struggle on the price front N Feb 9 Pare Xylene  Exxon Chemical Americas boosts capacity at Baytown, Tex. R Prices: sellers struggle on the price front N Feb 9 Pare Xylene  Exxon Chemical Americas boosts capacity at Baytown, Tex. R Prices: sellers struggle on the price front N Feb 9 Pare Xylene  Exxon Chemical Americas boosts capacity at Baytown, Tex. R Prices: sellers struggle on the price front N Feb 9 Pare Xylene  Exxon Chemical Americas boosts control of the Ape |   |       |       |    | businesses N  | May        | 23   | 4        | Europe faces more petrochemical shutdowns                                      | Jur   | ne 20 | 50 |
| Winton (charts, table, map.) Pricos. Production: ebound falls short N Feb 8 24  Organic Seminator Separation coefficients are available on fine N Production forganics site a scorching pace N Production forganics sites sharply N Production forganics is sharply N N Production forganics is sharply N N A strong first-quarter showing for organics N N A strong first-quarter showing for organics Organic is new sharply N N Production forganics is sharply N N A strong first-quarter showing for organics N N A strong first-quarter showing for organics N N Organic Materials — 3M plans to launch a series of tests on the effects of space on processing organic materials A Ortho-Xylene — Alusuisse Italia's improved know-how for prihabila are hydride N N Osaka University — Research agreement with Monsanto to study the role of sugars in cell functions N N Jan 4 29  Other Views  Ordand University — Research agreement with Monsanto to study the role of sugars in cell functions N N N Drugs in cell functions N N Drugs in cell functions N N Drugs in cell functions N N N Drugs in cell functions N N Drugs in cell function | The looming LPG glut. Olefin makers                                   |       |       |    | (chart)greater growth   | May        | 30   | 12       | Europe's recovery continues N  |       |       | 24 |
| Production: rebound falls short N Feb 8 24  A boom year for a big chemical market N For paper, the recovery comes quickly Organics set a scorching pace N Partition coefficients are available on line Production of organics rises sharply N Mar 21 634 N Production of organics is sess sharply N Mar 21 634 N Production of organics N N A strong first-quarter showing for organics N N A strong first-quarter showing for organics N N Organic Materials — 3M plans to launch a series of tests on the effects of space on processing organic materials — Apr 4 13 Ortho-Xylene — Alusuisse Italia's improved know-how for printail canhydride N N Osaka University — Live-virus vaccine licenses by Merck Merck develops chickenpox vaccine N Drayton, William: EPA needs R&D muney now to avoid waste later Fernandez, Louis at CMA annual meeting: Good public works need a strong public voice  | Winton (charts, table, map)   | May   | 1 2   | 32 |   |            |      |          | recoveryN  | Fei   | 0 1   | 20 |
| Organic Chemicals Organics set as scorching pace N Partition coefficients are available on Partition Coefficients are availabl | Production: rebound falls short N                                     | Feb   | 8     | 24 | A boom year for a big chemical mar-                                   | Feh        | я    | 9        | Feedstocks   |       |       |    |
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| U.S. oil supplies: A warning: crude oil imports will double by 2000 (heart)  Pharmaceutical Manufacturers Assn. Drug patent bill passes a New flows comment.  Name of the comment of the c | June 1   | 13                                     | 17  |
| Pharmaceutical Manufacturers Asan. Drug patent bil passes a House committee: dissident group of manufacturers disavow PMAs endorse- turers disavow PMAs endorse- dancher disavos PMAs endorse- turers disavow PMAs endorse- turers disavow PMAs endorse- dancher disavos PMAs endorse |  |  |   |
| Drug patent bil passes a House committee: dissident group of manufacturers disavow PMA's endorsement.  Valent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N May 23 40  Patent reform: PMA agrees "in principle" to support legislation N N N May 24  Patent reform: PMA agrees "in principle" to support legislation N N N N N N N N N N N N N N N N N N N   | May 1  | 16                                     | 44  |
| beyond photocopiers ment of the production of th | June 2   | 21                                     | 16  |
| Patent reform: PMA agrees "in principle" to support legislation N May 23 40 Photoinitator from Upjohn N N Deter Proposition of the Proposition of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photoinitator from Upjohn N N Photograph December 1 Services of the Photograph Photograph December 1 Services of the Photograph Photo | May 1  | 16                                     | 16  |
| Photonistiator from Upjohn Battelle's solvent pulping process Georgia-Pacific will expand capacity when Bound Brook, N.J. plant starts up Rhone-Poulenc cuts phenol capacity N Fibringines — Chemical exports: At stake in the international banking rescue (charts)  Phosphate Australia tries a new phosphate-treat- ment process Chevron Chemical scaling down phos- phate tertilizer project near Rock Springs, Wyo. Phosphate fertilizer project mear Rock Springs, Wyo. Photonistiator from Upjohn Photonistiator from Upjohn Photonistiator from Upjohn Photonistiator from Upjohn Photonists  Packing more informa- tion into chips: light-sensitive ma- terial  Photonistiator from Upjohn N Feb 29 Phate It suppose the significant into chips: light-sensitive ma- terial  Photonistiator from Upjohn N Feb 29 Photonistic mitor chips: light-sensitive ma- terial  Photonistic from Upjohn N Feb 29 Photonistic from Upjohn N Koppers to convert production at Chicago from o-xylene to naph- thalene feedstock R Picloram - North Carolina Study finds no cancer epidemic triggered by picloram, ingredient in Dow's Tordon herbicide R It substitute from Upjohn N Feb 29 Feb 30 Feb 15 Feb 29 Feb 30 Feb 15 Feb |  | 9                                      | 22  |
| Phenol Battelle's solvent pulping process Georgia-Pacific will expand capacity when Bound Brook, N.J. plant starts up and the process of the  |  | -                                      |   |
| Battelle's solvent pulping process Georgia-Pacific will expand capacity when Bound Brook, N.J. plant starts up Rhone-Poulenc cuts phenol capacity N Philippines — Chemical scapacity N Philippines — Chemical scapacity N Philippines — Chemical scaling down phose- phate floridize project near Rock Springs, Wyo. Phosphate fertilizer project mear Rock Springs, Wyo. Phosphate fertilizer project will pro- ceed N May 9-11, R Diammonium phosphate prices N Estech offers Florida Dualte phosphate mine for sale to the Manatee County Commission; may lead to swap of land parcels A fertilizer forecast as high as an elephant's eye; Fl annual meeting (chart) Feb 22 10 Fertilizer movement maintains momen- turn Floridia ludge's order: Let Beker's phos- phate trucks roll The Springs of the service | Mar a  | 28                                     | 13  |
| when Bound Brook, N.J. plant starts and particular starts and part | Mar :  | 28                                     | 10  |
| Rhone-Poulienc cuts phenol capacity N Philippines Chemical seports: At sake in the international banking rescue (charts)  June 20 53  Beker Phosphate Australia tries a new phosphale-treatment process Melever Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate fertilizer project mel refilizer project will proceed N May 9-11.  Phosphate fertilizer project will proceed N May 9-11.  Diammonium phosphate prices. N Estech offers Florida Duette phosphate mine for sale to the Manatee County Commission; may lead to swap of land parcels  A fertilizer forecast as high as an elephant's eye; Fl annual meeting (chart)  Fertilizer movement maintains momentum  Fordia ludge's order: Let Beker's phosphate trucks roll  Fordia ludge's order: Let Beker's phosphate trucks roll  Florida land reclamation legislation   |  | 18                                     | 30  |
| Philippines — Chemical exports: At stake in the international banking rescue (charts)  June 20 53  June 20 53  Phosphate Australia tries a new phosphate-treatment process N Beker Phosphate in legal battile with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate effilizer project mear Rock Springs, Wyo.  Phosphate fertilizer project mear Rock Springs, Wyo.  Phosphate in legal battile with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate effilizer project near Rock Springs, Wyo.  Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate leftilizer project in large and the large spring of the property of the prop     |  | 18                                     | 18  |
| Chicago from o-xylene to naph halenessed stock on the property of the process of  |  |  |   |
| Phosphate Australia tries a new phosphate-treat- ment process N Beker Phosphate in legal battile with Florida's Manatee County paperts appraiser over two floating dredges R Chevron Chemical scaling down phosphate erfitizer project near Rock Springs, Wyo.  N Phosphate ferfilizer project near Rock Springs, Wyo.  Estech offers Florida Duette phosphate mine for sale to the Manatee County Commission, may lead to swap of A ferfilizer of orecast as high as an elephant's eye: Fl annual meeting (chart) Feb 22 10 Ferfilizer forecast from USDA Ferfilizer movement maintains momen turn Food packaging for plastics. Properties and chromate pigments poprations Feb 22 10 Ferfilizer movement maintains momen turn Florida judge's order. Let Beker's phos- phate trucks roll File File File File File File File Fi   | Feb  | 1                                      | 16  |
| Australia tries a new phosphate-treatment process  Beker Phosphate in legal battile with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate fertilizer project near Rock Springs, Wyo.  Nesteen offers Florida Duette phosphate mine for sale to the Manatee County Commission; may lead to swap of land parcels  A fertilizer forecast as high as an elephant's eye: Fl annual meeting (chart)  Feb 22 10  Fertilizer rovement maintains momentum  Pertilizer movement maintains momentum  Nester offers with a suppled by pictorian in products to Toyo link Manufacturing.  Feb 22 10  Fertilizer movement maintains momentum  Nester offers with a supple by the provided provided provided provided provided products to Toyo Ink Manufacturing.  Feb 22 10  Fertilizer movement maintains momentum movementum movementum movementum movementum movementum movementum movementum works.  Feb 22 10  Fertilizer movement maintains momentum works.  Feb 22 10  Feb 23 10  Feb 24 10  Feb 25 10  Feb 25 15  Feb 25 15  Feb 27 10  Feb 27 10  Feb 28 16  Feb 29 16  Feb 29 16  Figments  Colored pigments: Du Pont sells three lines, abandons a fourth Chaese in Businesses by an employee investor group proprediction froation froation froation froation for deucing water pollution from pastics moding and forming plants . N Foam see Foam Food packaging: For plastics, new action in food packaging (chart)  Feb 22 10  Feb 22 10  Feb 22 10  Feb 23 10  Feb 23 10  Feb 24 10  Feb 25 10  Feb 25 10  Feb 25 10  Feb 27 10  Feb 27 10  Feb 28 10  Feb 27 10  Feb 28 10  Feb 29 16  Feb 29 16  Feb 29 16  Feb 29 1 |  |  |   |
| Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges R Chevron Chemical scaling down phosphate fertilizer project near Rock Springs, Wyo.  Phosphate fertilizer project near Rock Springs, Wyo.  Phosphate fertilizer project will proceed N May 9-11, R B Diammonium phosphate prices N Estech offers Florida Duette phosphate mine for sale to the Manatee County Commission; may lead to swap of land parcels  A fertilizer forecast as high as an elephant's eye; Fl annual meeting (chart)  Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum  Provide a forecast from USDA N Fertilizer movement maintains momentum N Florida land reclamation legislation  | Apr  | 18                                     | 12  |
| appraiser over two floating dredges R Chevron Chemical scaling down phosphate fertilizer project near Rock Springs, Wyo.  May 16  Jan 11  Zo  Du Pont sells three lines, abandons a fourth Clas-Geigy completes purchase.  R  June 20  Du Pont sells three lines, abandons a fourth May 2  Nay 2  Nay 2  Nay 3  Du Pont sells three lines, abandons a fourth May 2  Nay 2  Food packaging: For plastics, new action in food packaging: For plastics, and form inou food packaging water pollution from and form inou food packaging in food packaging and forming plastics on N Food packaging: For plastics, and form inou food packaging: For plastics, and form inou food packaging: For plastics, and form inou food packaging in food packaging |  |  |   |
| phate fertilizer project near Rock Springs, Wyo.  Phosphate fertilizer project will pro- ceed N May 9-11.  Diammonium phosphate prices. N Diammonium phosphate prices. N Setech offers Florida Duette phosphate mine for sale to the Manatec County Commission; may lead to swap of land parcels A fertilizer forecast as high as an elephant's eye: Fl annual meeting (chart) Fertilizer movement maintains momen- tum Fertilizer movement maintains momen- tum Fordia judge's order: Let Beker's phos- phate trucks roll N Florida land reclamation legislation  For special completes purches purchase.  May 2 18 June 2 0 5 Du Pont sells technology and market- ing information for copper phthalo- coyanine blue pigment products to Toyo lnk Manufacturing. N Apr 11 24 Apr 12 4 Apr 13 16 Feb 22 10 Fertilizer movement maintains momen- tum Feb 22 10 Fertilizer movement maintains momen- tum N Fertilizer movement maintains momen- tum N Feb 23 10 Fertilizer movement maintains momen- tum N Fertilizer movement maintains momen- tum N Feb 23 10 Fertilizer movement maintains momen- tum N Feb 24 10 Fertilizer movement maintains momen- tum N Feb 25 10 Fertilizer movement maintains momen- tum N Feb 25 10 Fertilizer movement maintains momen- tum N Feb 27 10 Fertilizer movement maintains momen- tum N Feb 28 2 10 Fertilizer movement maintains momen- tum N Fertilizer movement maintains momen- tum N Service from May 9 2 18 Feom see Feam Feod packaging; For plastics, new ac- tion in food packaging; For plastics, was and chromate pigments or food packaging for plastics speaked in gind market- ing information for copper phthalo- to pour listers and a for plastics data bank eystem on enginent | May  | 2                                      | 13  |
| Springs, Wyo. N Feb 15 19 Chase — Correction   Springs   Springs, Wyo. Phosphate 'ertilizer project will produced N May 9-11. R May 16 24   Du Pont sells technology and market   Springs   Springs  | Feb  | 22                                     | 50  |
| ceed N May 9-11,   |  |  |   |
| Estech offers Florida Duefite phosphate mine for sale to the Manatee County Commission; may lead to swap of land parcels  A fertilizer forecast as high as an elephant's eye; Fl annual meeting (chart)  Fertilizer forecast from USDA N Fertilizer movement maintains momentum N Fordia judge's order: Let Beker's phosphate trucks roll   N   Variable   N   Variable   V | Jan  |  | 25  |
| mine for sale to the Manatee County Commission; may lead to swap of land parcels A fertilizer forecast as high as an elephant's eye; Fl annual meeting (chart) Fertilizer movement maintains momen- turn Fordia judge's order: Let Beker's phos- phate trucks roll Florida land reclamation legislation  A yr  Househ completes purchase of Du Pont's azo and chromate pigments Feb 15 Apaneses imports of silica-encapsui- sted lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment and and reclamation legislation  A pr 11 24 Beluach completes purchase of Du Pont's azo and chromate pigments Feb 15 16 Ferous Pont's azo and chromate pigments ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment suit against Toho and Nihon still pending Toyo Ink gant under the pigment ated lead chromate pigments; ITF ban upheld; Du Pont patent infringe- ment su | Feb  | 8                                      | 5   |
| land parcels May 23 10 Pont's azo and chromate pigments of sperations of silica-encapsul- feeling (chart) feeling (chart) feeling (chart) feeling forecast from USDA N Feelilizer forecast from USDA N Feelilizer movement maintains momentum N Florida judge's order: Let Beker's phosphosphate trucks roll N Florida land reclamation legislation selection of the select | June   | 20                                     | 50  |
| elephant's eye: Fl annual meeting (chart) (chart) Feb 22 10 Fertilizer rovecast from USDA N Mar 7 24 Fertilizer rovecast from USDA N Mar 9 24 Fertilizer rovecas | May  | 30                                     | 17  |
| (chart)  | May  | 2                                      | 18  |
| Fertilizer movement maintains momentum N May 16 51 Florida judge's order: Let Beker's phosphate trucks roll N June 13 9 Florida land reclamation legislation works modifying Fuji Pigment works N May 2 20  Mattel making toy parts from resins filled with BaSO, that show up on X-rays Packaging: Plastics' push for chemical packaging  | Jan<br>Feb   | 25                                     | 62<br>20  |
| phate trucks roll N. June 13 9 markets: modifying Fuji Pigment Yrays Plorida land reclamation legislation works N. May 2 20 packaging.   |  | _                                      |   |
| Florida land reclamation legislation works   | Apr  | 11                                     | 20  |
|  | Mar  | 14                                     | 50  |
| rules phosphate processors must pay all the costs June 6 15 Piping Paper and plastic vie for the milk container (chart)  | Feb  | 1                                      | 14  |
| Florida phosphate: Estech getting ready to resume production at Silver City; Australian natural gas pipeline pro-  | Mar<br>Jan   |  | 5 28  |
| W.R. Grace will close Bonny Lake Canada's Nova shines, but less bright- Production of plastics outpaces gains  |  |  |   |
| Florida phosphate: Estech to drop law-  Cortez CO, pipeline starts up N Jan 4 20 Production and sales tack on strong   | June   | 20                                     | 60  |
| suit as maintaite Courny allows com- Natural-gas gate stations considering gains N pany to view documents which con- electric generators powered by pipe-  Recovery maintains momentum N   | May<br>May   |  | 31<br>60  |
| cern company's quest for permits to line pressure  | Jan  | 25                                     | 11<br>34  |
| Florida pushes EPA on gypsum-by- tabs  | Mar  | 14                                     | 34  |
| product safety N Jan 25 80 Prices: pipe and fittings N Feb 8 24 strong growth looms — C. H. Kline Florida: two more mines report. B Mar 28 19 TAFA system to make ductile iron pipe.   | May  | 2                                      | 31  |
| Gardinier's phosphate plant at East corrosion-proof. N Jan 11 32 Synthetics for restoring historic facades Tampa, Fia. may be closed over "Pittsburgh Chemical Day" — Chemi-   | Anr  | 25                                     |   |
| ecology hassie   | Apr  | 15                                     | 25  |
| near Tampa, Fla. complex: Florida Plating — Witco's Allied Kelite's electro-   | Feb  |  |   |
| county commission moves to deny rezoning request   |  |  |   |

| Politics   |            |             |          | action in food packaging (chart)   | Jan 1       | 8          | 25       | rene business of Goodson Cherni-   |             |          |          |
|--|------------|-------------|----------|--|-------------|------------|----------|--|-------------|----------|----------|
| ACS urges a Democratic R&D election plank N  | June 20    | 0 :         | 74       | -Letter Montefibre to supply PET polymer   |             | 8          | 5        | Monomers, PMS and PPMS: A crucial  | Feb         | 1        | 17       |
| Democrats' report focuses on increas-<br>ing productivity  | Jan 1      |             | 42       | and preforms to bottle producer,<br>Cobarr   | June 2      | 7          | 90       | time for 'high-tech' styrene (charts) Prices N   | June<br>Apr | 6        | 20<br>38 |
| Pollak, Edward B., president of Olin's In-   | Jun 1      |             | 76       | Plastics' push for chemical packaging:   |             |            | 55       | Polyurethane   | right       |          | 30       |
| ternational Group — Pollak: Olin's man<br>on the international front                             | Feb 1      | 5           | 42       | PET for other applications Polyimides — Du Pont plans Vespel poly-   | Mar 1       |            |          | FAA calls for fire-blocking seat fabrics:  | Fat         |          | 40       |
| Polyacrylonitrile — Hercules in joint ven-<br>ture with Sumitomo                                 | Feb 2      | 9           | 5        | mide parts plant for Japan N<br>Polymer Institute — Ohio's quest for high-   | Mar 2       |            | 9        | polyurethane-foam cushion Oil's lure for urethane makers   |             | 15<br>25 | 13<br>16 |
| Polyarylate — Celanese may buy Oxy's<br>Durel polyarylate engineering-resins                     |            |             |          | tech ventures (table)  | May 2       | 23         | 14       | Runway repair materials development<br>program   | May         | 23       | 35       |
| operation N<br>Polybenzimidazole — Celanese FBI fiber:   | June 2     | 0           | 13       | Polymerization   |             |            |          | Specialty urethanes prices N<br>Synthetics for restoring historic facades  | Feb         | 22<br>25 | 28<br>54 |
| Airline safety's boost for fibers  | Feb 1      | 5           | 13       | New polymerization catalyst: Univ. of<br>Wisconsin-Madison's West at ACS   |             |            |          | Urethanes' double-digit surge: autos<br>and furniture  |             |          | 13       |
| unit at Bridgeport, N.J.: BASF's U.S.  |            | _           |          | meeting N Polypropylene polymerization catalyst  | Apr 1       | 18         | 37       | Witco's big win in foam patent suit  | Apr         | 11       | 13       |
| polymer presence<br>Polycarbonate-ABS — Filled-resin EMI   | May        | 2           | 13       | Lynx 900, from Catalyst Resources,   | F-1-        |            |          | may affect makers and users of rigid<br>polyurethane foam  | June        | 6        | 11       |
| shielding is Mobay's wedge into com-<br>puters   | Feb        | 1           | 16       | will make older plants competitive. N<br>Treating wastewater by polymerizing   | Feb 1       |            | 33       | Polyurethane Manufacturers Assn.   |             |          |          |
| Polycarbonates   |            |             |          | pollutants N   | May         | 2          | 37       | Oil's lure for urethane makers Urethanes' double-digit surge: autos  | Apr         | 25       | 16       |
| Dow's new resins for business ma-  | NA         |             |          | Polymers Badische unit at Bridgeport, N.J.:  |             |            |          | and furniture  | Apr         | 11       | 13       |
| GE expands plants in Mt. Vernon, Ind.  | May 1      |             | 44       | BASF's U.S. polymer presence   | May         | 2          | 13       | polyvinyl resin in Springfield, Mass R   | Apr         | 4        | 18       |
| and Bergen op Zoom, Netherlands R<br>Montedison will build a plant in the                        | Mar 1      |             | 24       | Chemical Div   | Mar         | 14         | 24       | Polyvinyl Alcohol  |             |          |          |
| U.S.S.R.   | Mar        | 7           | 19       | Diatec Polymers brings acrylamide<br>polymers plant at Batavia, III. on-   |             |            |          | Air Products' expansion at Calvert City,<br>Ky. R Jan 4-15,  | Mar         | 21       | 19       |
| Polychlorinated Biphenyls Canada: Ontario plans destruction of                                   |            |             |          | Dow introduces new adhesive poly-  | Mar         | 14         | 24       | Paper industry recovery: sales of PVA<br>for special paper products increase<br>Polyvinyl Butyral — Du Pont ups capacity | Mar         | 21       | 10       |
| PCBs with mobile equipment N   | June 2     | 27          | 90       | mers, trademarked Primacor N<br>Du Pont drives for a comeback in pho-  | Mar         | 21         | 9        | Polyvinyl Butyral — Du Pont ups capacity<br>for PVB sheeting used in auto wind-  |             |          |          |
| GE and NIOSH studies give PCBs a good report   | Jan        | 4           | 29       | topolymers with AT&T Technology contract N   | Mari        | 2          | 0        | shields N  | May         | 16       | 11       |
| Huber's Advanced Electric Reactor<br>certified by EPA for high-tempera-                          |            |             |          | Hi-tech polymers from 'ordered' mole-  |             |            | 9        | Polyvinyl Chloride Air Products to boost PVC capacity at   |             |          |          |
| ture destruction of PCBs in soils N<br>Correction  | May :      | 16<br>23    | 16       | cules ICI will double capacity for Victrex high-   |             | 11         | 35       | Calvert City, Ky R   | Mar         | 14       | 24       |
| Oak Ridge develops a chemical method   |            |             |          | performance thermoplastic resins N<br>Lead acrylic polymer: A lower cost   | June        |            | 90       | Dexter diversifies into specialty PVC<br>products: acquires Alpha Chemical   |             |          |          |
| to remove PCBs   | June       | б           | 25       | shield from radiation. Membranes see Membranes   | Apr         | 25         | 69       | & Plastics and Mercer Plastics N<br>Goodrich develops new PVC resin tech-  | Jan         | 11       | 9        |
| incineration at sea — EPA denies<br>Chemical Waste Management two                                |            |             |          | Nalco Chemical reaches out-of-court<br>settlements with Allied Colloids on   |             |            |          | nology N<br>Goodrich sues Formosa Plastics to  | May         | 9        | 33       |
| research permits UC develops system to remove PCBs   | June       | 20          | 39       | patent infringement suits R  |             | 18         | 17       | protect its PVC technology N<br>Growth in housing R  | Mar<br>May  | 7 2      | 9        |
| from electrical transformers R Polychloroprene — Commerce Dept.                                  | Feb        | 29          | 12       | Olefin-based polymers prices N<br>PMS and PPMS: A crucial time for high-   | Mar         |            | 65       | Japanese producers reducing capa-  |             |          |          |
| finds dumping in the U.S. by Japan N   | Feb        | 1           | 25       | tech styrene (charts)  | June        |            | 20       | Markets: Look, the PVC makers are  | Mar         |          | 22       |
| Polycyclic Organic Matter — A 'no' vote for a POM air pollution rule N                           | Feb        | 22          | 50       | Runway repair materials development  | May         | 30         | 22       | smiling again (chart)  | Apr         |          | 24       |
| Polydextrose — Pfizer plans second plant at Terre Haute, Ind                                     | Mar        | 28          | 19       | program  | May         | 23         | 35       | PVC film prices N<br>Prices N  | Feb         | 29       | 23<br>65 |
| Polyester  |            |             |          | strong growth looms — C.H.Kline  | May         | 2          | 31       | Prices: European N Prices for processed PVC N Price rises blamed for spering pipe  | Feb         | 18       | 20<br>20 |
| Du Pont's Rynite SST, thermoplastic  | Mar        | 7           | 13       | Poly-p-methylstyrene — Styrene mono-   | May         | 6          | 31       | Price rises blamed for soaring pipe tabs   | Mar         |          | 34       |
| polyester for autos  Ethylene glycol: polyester demand is  |            |             |          | mers: A crucial time for 'high-tech' sty-<br>rene (charts)   | June        | 6          | 20       | Shintech will boost PVC capacity at  |             |          |          |
| key factor Hoechst expands in polyester film N   | Mar<br>Mar | 7<br>28     | 34<br>42 | Polyolefins  |             |            |          | VCM see Monomers   | Mar         |          | 24       |
| Prices: polyester yarn prices N Jan<br>25-24, N  | June       | 6           | 35       | Ohio Poly to increase polyolefin films   | luma        | 07         | 45       | Portugal — Gum rosin exports   | Mar         | 7        | 20       |
| Prices: resin N Apr 25-57, N   | June       | 27          | 16       | capacity   | June<br>Mar | 21         | 15<br>65 | Potash<br>Amax Chemical and Kerr-McGee file  |             |          |          |
| Polyethylene   |            |             |          | Polypropylene  |             |            |          | for import relief  | Apr         | 18       | 20       |
| Allied completes second phase of ex-<br>pansion at low-molecular-weight                          |            |             |          | Amoco Chemicals considering the ac-  |             |            |          | Lanigan mine N<br>Canadian potash shipments surge due  | Jan         | 18       | 20       |
| polyethylene wax plant in Orange,<br>Tex   | May        | 2           | 19       | quisition of Gulf Oil Chemical's poly-<br>propylene business   | Jan         | 18         | 12       | to demand from U.S. fertilizer   | lan         | 10       | 20       |
| Arco launches new expandable plastic,<br>Arcel   | May        | 30          | 9        | Argentine plant proposed N<br>Avtex's play in PP staple  | Feb<br>May  |            | 20<br>13 | Dumping: U.S. continues to probe im-   |             | 18       | 28       |
| DSM and Toyobo will develop super-<br>strength polyethylene fiber N                              | Mar        | 21          | 20       | Resources, will make older plants  |             |            |          | ports  |             | y 16     | 29       |
| Enichimica to build polyethylene plant<br>at Sicilian Priolo complex N                           | Feb        |             | 16       | competitive  | Feb         | 15         | 33       | market   | Feb         | 15       | 25       |
| EC tightens the trade screws: new<br>variffs on PE sheet and film (table)                        | Jan        |             | 17       | Arco bows out  | Apr         | 4          | 9        | phant's eye: FI annual meeting (chart)   | Fei         | 22       | 10       |
| Finland's Neste acquisition of Unifos  | Jan        | 20          | 11       | chase of Arco's polypropylene  | Anr         | 11         | 15       | Fertilizer forecast from USDA N  | Ma          |          | 24       |
| Kemi approved by Swedish govern-<br>mentN  | Apr        | 4           | 18       | facility in La Porte, Tex. (table)  — Correction   | Apr         |            | 15<br>5  | Fertilizer movement maintains momen-<br>tumN   | Ma          | v 16     | 51       |
| Food packaging: For plastics, new ac-<br>tion in food packaging                                  | Jan        | 18          | 26       | Exxon polypropylene comes onstream at Baytown, Tex   | Feb         | 15         | 25       | Israel Chemicals Ltd.: A bold expansion policy abroad pays off for ICL   | Feb         | 8 0      | 21       |
| HDPE: Plastic and paper vie for the milk container (chart)                                       | Feb        |             | 14       | Himont replaces more units at Bayport,<br>Tex  |             | e 6        | 17       | North American potash markets turn upN   | Ma          | r 7      | 24       |
| Letter     LLDPE: Ohio Poly's LLDPE film output  | Mar        |             | 5        | Polypropylene resin prices N<br>Price fixing: alleged European price   |             | e 13       | 24       | up   |             |          |          |
| could encircle the earth 5-1/2 times. R<br>National Distillers and Chemical con-                 | Feb        | 15          | 16       | fixingR  |             | e 20<br>11 | 23<br>38 | Mich   | Ma          | r 7      | 16<br>25 |
| firms PE plant buys from Arco and  | las        | 25          | 17       | Prices N Shell ups capacity at Woodbury; N.J. plant R  |             | 15         | 16       | Production soars N<br>Shipments climb N  | Apr         | r 4      | 26       |
| Owens-Illinois   |            | 25          |          | Sumitomo says China may become the   | rec         | 13         | 10       | U.S. potash producers will petition for<br>protection from cut-rate offshore   | Jell        |          | 20       |
| Lake Charles, La. Prices N Prices: European N  | Jan<br>Mar | 21          | 12<br>65 | single largest client for LDPE and polypropylene from Singapore unit. N  | Mai         | r 14       | 28       | imports  | Apr         |          |          |
| Prices: European   | Feb        |             | 20       | Polysaccharide — IGI Biotechnology de-<br>velops gum arabic alternate, Poly-   |             |            |          | World potash is moving again (chart) Potassium Benzoate — Pfizer introduces  | Ma          |          |          |
| Newlin of Mobil N<br>Spain's ERT turns down acquisition  | Apr        | 18          | 20       | LevuLan  | Apı         | 11         | 23       | salt substitute  | Ма          | ır 14    | 24       |
| offer for LDPE plant   | Feb        | 8           | 17       | Polysilanes Polymerization catalysts; polysilanes in   |             |            |          | Powders Air Products receives polymer spray-   |             |          |          |
| of ERTN  | Apr        | 25          | 25       | lithographic masks: ACS meeting  |             | 18         | 37       | dry powders technology license from Wacker-Chemie  | Ma          | ar 7     | 7 16     |
| Sumitomo savs China may become the   | Jun        | e 20        | 50       | reports  | Apr         |            |          | Ethyl opens sodium and calcium bro-<br>mide powders plant in Magnolia.   | .010        | . ,      | 10       |
| single largest client for LDPE and<br>polypropylene from Singapore unit N                        | Ma         | r 14        | 28       | stir   | Ma          | y 30       | 22       | Ark  | Ma          | ar 28    | 3 19     |
| UC ups capacity at Taft, La. plant N<br>Polyethylene Glycol — Prices N                           | Feb        | 15<br>ne 20 | 9<br>60  | Polystyrene<br>EPS: Optimism outpaces overcapacity   |             |            |          | Precursors   |             |          |          |
| Polyethylene Terephthalate   |            |             |          | (chart)  | Fet         | 29         | 18       | Cyclohexanone: EPA lets industry do<br>tests on a nylon precursor N  | Fe          |          | 8 40     |
|  |            |             |          |  |             |            |          |  |             |          | 4 26     |
| Automotive plastics  | Ma         | r 7         | 13       | Huntsman Chemical expands in U.K.:<br>will take over 20,000 metric tons/yr   |             |            |          | Cyclohexanone prices   |             |          |          |
| Automotive plastics Celanese stakes out a new resins facility  Food packaging: For plastics, new | Fel        |             | 13<br>9  | Huntsman Chemical expands in U.K.:<br>will take over 20,000 metric tons/yr<br>of polystyrene manufacturing capa-<br>city from Shell Chemicals U.K N<br>Huntsman Chemical will lease polysty- | Ma          | y 2        | 20       | Cyclohexanone prices N   | Ju          | ne 2     |          |

| President's Private Sector Survey on   |       |      |          | For paper, the recovery comes quickly  | Mar  | 21 | 10 | Battelle forms new Cellular and Mole-   |       |    |     |
|--|-------|------|----------|--|------|----|----|---|-------|----|-----|
| Cost Control   | lan   | O.F. | 3        | Solvent pulping: How solvent pulping   |      |    |    | cular Biotechnology Section N   | May 3 | 30 | 34  |
| Going after \$142 billion — Viewpoint  |       | 25   | -        | gets more from the tree  | Jan  | 4  | 26 | Biomass: Commodities from biomass — where we're headed  | Apr   | 4  | 36  |
| costs  | Jan   | 25   | 14       | panies are holding down inventories<br>(charts)                                  | Feb  | 8  | 28 | Biotechnology report from OTA: To en-<br>sure biotech's future — Viewpoint                                  | Feb   | 1  | 3   |
| Prices   |       |      |          | Purification — Great Britain: Electrochem  | Len  | 0  | 20 | The tenuous U.S. lead in biotechnol-  |       | '  |     |
| Chemical and related industries will<br>post good growth in 1984 N   | Feb   | 22   | 28       | methane purification plant will use<br>Sulzer Bros. technology                   | Jan  | 25 | 19 | ogy (chart) Biotechnology: Why Wall Street wants  | Feb   | 1  | 21  |
| The end-users regain power in making   |       |      |          | outer proc. teamorogy  | ouri |    | 10 | more biotechnology data   | Mar   | 7  | 22  |
| France puts together a pricing agree-  | Feb   | 29   | 6        | _  |      |    |    | Blood: Pharmacia and Imre joint ven-<br>ture to research technique that                                     |       |    |     |
| ment   | Feb   | 8    | 17       | Q  |      |    |    | would purify and treat blood after it   |       |    |     |
| Monthly stock report (charts & tables)<br>Jan 11-26, Feb 8-26, Mar 14-44,  |       |      |          |  |      |    |    | is removed from the body N<br>Blood-clotting protein: A wide-open   | Feb   | 1  | 30  |
| Apr 11-42, May 16-63,  | June  | 20   | 48       | Qatar — CdF Chimie will build feedstock  |      |    |    | field in the race for factor VIII   | Jan   | 11 | 22  |
| New plant and equipment prices climb<br>slowly   | Feb   | 8    | 9        | unit for Omm Said petrochemical com-   | Mar  | 7  | 10 | Leader in the factor VIII race: Genen-<br>tech uses r-DNA to make a blood-                                  |       |    |     |
| Prices also see specific chemical, com-  |       |      |          | plexN  | Mar  | 7  | 19 | clotting protein  | May   | 9  | 17  |
| modity, etc. Printers & Printing — Water-based inks:   |       |      |          | _  |      |    |    | Body-calcium research: federal agen-<br>cies unite  | May   | 30 | 34  |
| For printing, water-based inks come on   | Apr   | 18   | 10       | R  |      |    |    | Bone regeneration research agree-   | ,     | -  | -   |
| strong (chart) — Letter  | May   | 9    | 5        |  |      |    |    | ment signed by Monsanto and Col-<br>lagen N   | Apr   | 25 | 30  |
| Product Development — Restructuring:<br>Basics and plastics can be special,  |       |      |          | Radiation  |      |    |    | Bristol-Myers gives research grants to<br>two cancer centers  | May   | 2  | 37  |
| too Viewpoint  | May   | 23   | 3        | Colorado ruling involving Dow's Rocky  |      |    |    | Cancer risk assessment: ACSH report   | May   | ٤  | 31  |
| Restructuring and the need for special people — Viewpoint Product Liability — Michigan Supreme Court rules that a group of 238 women | May   | 30   | 3        | Flats Nuclear Weapons Plant case:<br>radiation ruling precedentR                 | May  | 9  | 22 | questions federal regulatory agen-<br>cies exposure/risk assumptions  | May   | 9  | 26  |
| Product Liability — Michigan Supreme   |       |      |          | Lead acrylic polymer: A lower cost<br>shield from radiation                      |      | 25 | 69 | Center for Advanced Research in Bio-  | ividy | 3  | 2.0 |
| can sue all 16 producers of DES R  | Feb   | 22   | 18       | Probing materials with a synchrotron   | Apr  | 18 | 23 | technology, CARB: new biotech cen-<br>ter allies diverse groups   | Feb   | 22 | 16  |
| Production   |       |      |          | Railroads  |      |    |    | Chemicals from 'wild' plants  | May   | 16 | 30  |
| Bullish producers are rebuilding — but   |       |      |          | Another shipper/railroad brawl: Chemi-   |      |    |    | Collaborative Research and American<br>Hospital Supply to form joint ven-                                   |       |    |     |
| with restraint (chart & table)   | Feb   | 1    | 10       | cal makers cry foul to higher rates<br>and fewer choices of carrier              | Feb  | 15 | 14 | ture to make and market laboratory  |       |    |     |
| post good growth in 1984 N   | Feb   | 22   | 28       | Conrail: Who will get Conrail? 14 bids   |      | -  |    | tests that detect human inherited diseases  | Jan   | 18 | 38  |
| CW's leading indicator: Halcyon days<br>ahead for chemical companies N   | Jan   | 4    | 9        | (table) Florida judge's order: Let Beker's phos-                                 | June | 27 | 10 | Conferences: Making a university/in-  |       |    |     |
| Commerce Dept. sees a sunshiny 1984  |       |      |          | phate trucks roll; Beker ordered to  |      |    |    | dustry match Cyanamid's cross-linking know-how:   | Feb   |    | 20  |
| for chemicals N<br>FRB data: a new and favorable pro-  | Feb   | 29   | 5        | build railroad within three years N<br>Framingham, Mass. hassle over VC in       | June | 13 | 9  | Ley report at ACS meeting N   | Apr   | 18 | 37  |
| gress report   | Jan   | 4    | 9        | a railyard: are tank cars in "storage"   |      |    |    | by ACSN   | June  | 20 | 74  |
| Forecast 1984: The gains for chemi-<br>cals will continue (charts & table)   | Jan   | 4    | 30       | or interstate commerce? Freight rates see Freight Rates                          | Feb  | 22 | 14 | NIH's Recombinant DNA Committee   |       |    |     |
| International forecast: A business pick-   |       |      |          | Hazardous materials see Shipping —   |      |    |    | to reevaluate its role N  | Jan   | 18 | 44  |
| up for non-U.S. companies (charts & tables)  | Jan   | 25   | 64       | Hazardous materials<br>Israeli fertilizer industry will get boost                |      |    |    | r-DNA committee readies for a show-<br>down   | Feb   | 15 | 48  |
| Inventories: How companies are hold-<br>ing down inventories (charts)  | Feb   | 8    | 28       | from rail line N<br>Keep the rails competitive — View-                           | May  | 30 | 18 | Let's keep RAC in charge - View-  |       |    |     |
| Monthly production report (charts)   | reu   | 0    | 20       | point  | Feb  | 22 | 3  | Regulatory chaos looms for biotech-   | Feb   | 29 | 3   |
| Jan 25-18, Feb 29-14, Mar 28-20,<br>Apr 25-26, May 30-5,   | June  | 27   | 86       | Ranch Hand Vietnam Assn. — U.S. Air  |      |    |    | nology  | Feb   | 29 | 35  |
| 1984: another year of gains  | Guire | 1 21 | 00       | Force study supports many views in<br>the Agent Orange case                      | Mar  | 14 | 20 | DNA see also <b>DNA</b> Dow expands research into composites  |       |    |     |
| and time for new resolves — View-<br>points  | Jan   | 4    | 3        | Rayon  |      |    |    | at applications lab at Freeport, Tex. N   | JERE  | 20 | 26  |
| Productivity - Democrats' report fo-   |       |      |          | Avtex steps out in style with specialty  |      |    |    | Du Pont's record-high outlay for ag-  | Apr   | 4  | 9   |
| cuses on increasing productivity N   | Jan   | 11   | 42       | fibers Courtaulds North America to upgrade                                       | May  | 16 | 52 | Energy Dept.'s Idaho Laboratory F   |       |    |     |
| Propane  |       |      |          | Mobile, Ala. plant   | Feb  | 22 | 18 | ity consolidates experimental pro-<br>grams   | June  | 13 | 34  |
| Canadian feedstocks: switch to use of<br>propane and butane recommended  | Feb   | 15   | 15       | Italy: Snia Fibre cancels rayon plant at<br>Rieti                                | Jan  | 18 | 20 | Engineering research centers: report<br>from National Academy of Engineer-                                  |       |    |     |
| Energy futures: easier terms for trading   |       |      |          | Prices: rayon filament yarn N  | May  | 9  | 60 | ing   | Mar   | 7  | 30  |
| in propane futures N Propanol — Prices N   | May   | 16   | 51<br>24 | Texaco launching new solvent for rayon<br>manufacture, NMMO                      | Apr  | 25 | 30 | EPA's budget: EPA needs good science, not an inflated budget — View-  |       |    |     |
| Propellants see Rocket Propellants   |       |      |          |  |      |    |    | point   | Apr   | 4  | 3   |
| Propylene  |       |      |          | Reactors Huber's Advanced Electric Reactor                                       |      |    |    | Other Views: EPA needs R&D money now to avoid waste later. William  |       |    |     |
| Prices N Jan 11-25, N<br>Production N  | Mar   | 21   | 65<br>24 | certified by EPA for high-tempera-<br>ture destruction of PCBs in soils N        | May  | 16 | 44 | Drayton   | Apr   | 25 | 3   |
| Texaco unit in Los Angeles will be com-  | -     |      |          | Correction   | May  |    | 16 | EPA's research budget: A research-<br>maiming budget for EPA? (chart)<br>Chemical majors join push for more | Apr   | 4  | 27  |
| Propylene Oxide — Arco Chemical Eu-  | May   | 2    | 18       | Israel development may use thorium to<br>power light-water nuclear reactors. N   | Mar  | 28 | 33 | Chemical majors join push for more<br>EPA R&D funding N   | Apr   | 11 | 58  |
| rope: To build or not to build?  | Mar   | 28   | 39       | Linde's methanol reactor will get a  |      |    |    | Europe's research-fund crisis   | June  |    | 20  |
| Protein  |       |      |          | test   | Jan  | 18 | 38 | Fermentation: There's new life in con-<br>tinuous fermentation  | Feb   | 22 | 42  |
| Blood-clotting protein: A wide-open field  | lon   | 11   | 22       | hot market for chemicals and hardware<br>(table)                                 | Eab  | 00 | 00 | Fertilizer makers blast a grant for "or-  |       |    |     |
| in the race for factor VIII  | Jan   |      | 22       | Recruiting - Seeing 'yoursels' as stu-   | Feb  | 29 | 30 | ganic" farming  | June  | 27 | 16  |
| tech uses r-DNA to make a blood-<br>clotting protein   | May   | 9    | 17       | dents see you — Viewpoint  | Apr  | 18 | 3  | search agreement signed by Bio-   |       |    |     |
| Bone regeneration research agree-  | ivia  | , ,  |          | Refining   |      |    |    | Technical Resources and Virginia Commonwealth Univ N  | Feb   | 8  | 34  |
| ment signed by Monsanto and Col-<br>lagen  | Apr   | 25   | 30       | Feedstocks see <b>Petrochemicals</b><br>Sulfur oxides from cat crackers: EPA     |      |    |    | Gasification: advanced-flash hydro-   |       |    | 30  |
| Chemicals from 'wild' plants   |       | y 16 | 30       | proposes limits  | Jan  | 25 | 80 | pyrolysis concept to be tested N<br>Genetic engineering: How genetic en-                                    | Mar   |    |     |
| Genentech developing a selective anti-<br>cancer agent called lymphotoxin N  | Jun   | e 13 | 34       | Reinforced Plastics/Composites Institute — Reinforced plastics are a hit (table) | Jan  | 25 | 11 | gineers will customize proteins Genetic frost-resistance test may be  | Mar   | 21 | 79  |
| How genetic engineers will customize   |       |      | 70       | Rensselaer Polytechnic Institute — Con-  | -    |    |    | blocked by environmentalists N  | Apr   | 25 | 76  |
| proteins  Monoclonal antibodies' industrial scale-   | Mai   | r 21 | 79       | tinuous fermentation produces special-<br>ty monomer                             | Feb  | 22 | 42 | Great Britain: ICI opens fiber research   | Apr   | 11 | 24  |
| up: producing kilogram quantities for  |       |      |          | Rentals — Lab instruments for rent from<br>United States Analytical Instruments  | Jan  | 18 | 14 | center  |       |    | -   |
| purifying proteins and fighting di-<br>sease   | Mai   | r 28 | 28       | Reprographic Chemicals — ChemDesign:   | -    |    |    | transferring operation and manage-<br>ment to IGT   | Jan   | 25 | 80  |
| T-cell growth factor: Who's ahead in the IL-2 race?  | Anr   | 18   | 16       | 'Buy American'   | Mar  | 21 | 14 | Infertility: Probing chemical causes of<br>infertility  | Feb   |    | 26  |
|  | -     | 10   |          | Research   |      |    |    | Insecticides — Squeezing insecticides   | Feb   | 13 | 20  |
| Public Relations Chemicals: Queen for a day in Pitts-  |       |      |          | AC Biotechnics donating laboratory<br>fermentation systems to six colleges       |      |    |    | from oranges: fire ants, flies, fleas<br>and weevils succumb to the oils ex-                                |       |    |     |
| burgh — Viewpoint  | Ma    | y 2  | 3        | and universities N   | June | 6  | 25 | tracted from citrus peel  | June  | 27 | 20  |
| Fernandez, Louis at CMA annual meet-<br>ing: Good public works need a strong   |       |      |          | Agricultural research: Du Pont unveils<br>two new agricultural research sta-     |      |    |    | Molecular computer: bioengineered<br>compounds could store more infor-                                      |       |    |     |
| public voice — Other views   | Jun   | 13   | 3        | tions  | Mar  | 28 | 19 | mation on a silicon chip  | Feb   | 8  | 19  |
| Science in the streets: Let's clean up<br>the act — Viewpoint  | Ma    | y 9  | 3        | research   | Jan  | 18 | 44 | Monoclonal antibodies' industrial scale-<br>up: Damon Biotech and Bio-Re-                                   |       |    |     |
| Publisher's Page — McCurdy, Patrick P.:<br>Welcome back, Pat   | Ма    |      | 5        | Allelopathy: Plants that produce their own herbicide                             |      |    | 28 | sponse to produce kilogram quan-  |       |    |     |
| Pulp Chemicals Assn. — Tall-oil rosin  |       |      |          | Alumina chemicals: Looking for an up-  |      | 2  |    | tities for purifying proteins and fight-<br>ing disease   | Mar   | 28 | 28  |
| inventories  | Ma    | r 7  | 20       | turn   | May  | 23 | 20 | NAS establishes Government-Universi-  |       |    | -   |
| Pulp & Paper   |       |      |          | foam substrates N  | Feb  | 1  | 30 | ty Industry Research Roundtable . N<br>Ocean incineration: A setback for PCB                                | May   | 10 | 44  |
| A boom year for a big chemical mar-<br>ket   | Feb   | b 8  | 9        | Animal tests alternatives sought: Revion<br>grant to support research at Rocke-  |      |    |    | incineration at sea — EPA denies  |       |    |     |
| Canadian newsprint growth N  | Ma    | r 14 | 28       | grant to support research at Rocke-<br>feller University N                       | May  | 23 | 35 | Chemical Waste Management two research permits  | June  | 20 | 39  |
|  |       |      |          |  |      |    |    |   |       |    |     |

| Ohio's quest for high-tech ventures:   |  |   |  | Rubber   |   |   |  | plant risk (diagram)   | Feb 2  | 2 2   | 29   |
|--|--|---|--|--|---|---|--|--|--|---|--|
| Thomas Alva Edison Program will<br>have as a major cornerstone the   |  |   |  | Butadiene see Butadiene<br>Guayule: Chemicals from 'wild' plants .   | May 1   | 8   | 30   | Toxic Substances Control Act see Law   |  |   |  |
| Polymer Institute (table)  | May :  | 23  | 14   | Guayule: House deletes biotech, guay-  | ividy i   |   |  | Toys: Mattel making toy parts from<br>resins filled with BaSO <sub>4</sub> that show up  |  |   |  |
| Oil-recovery formula: bugs in, product   |  | 0.5   |  | ule rupper funds N   | June 1  | 3   | 40   | on X-rays  | Apr 1  | 1 2   | 20   |
| Ordered polymers research  |  | 25<br>11  | 58<br>35   | Japan's Denki Kagaku gives up on its<br>U.S. plant; Denka Chemical being   |   |   |  | Wood préservatives: EPA action ex-<br>pected soon N  | June 2   | 7 1   | 02   |
| Phosphogypsum wastes: researchers  |  |   |  | purchased by a group of its own em-  |   |   |  | pecied addit   | Julie 2  |   | JE   |
| look at ways for use as a road base  |  | or.   | 50   | ployeesN   | Mar 2   | 1   | 9  | Salaries   |  |   |  |
| and a construction material  | Apr  | 25  | 52   | Monsanto's hydrogenation facility for<br>rubber chemicals at plant in Sauget,  |   |   |  | Executive compensation: With chemi-  |  |   |  |
| sylvania gets funding from Rohm  |  |   |  | IIIR   | May 3   | 0   | 17   | cal earnings up, salaries and bonuses<br>rise — CW's annual compensation   |  |   |  |
| and Haas N<br>Plant tissue culture: A harvest of chem-   | Feb  | 8   | 34   | Phillips Chemical will stop making syn-  |   |   |  | survey (charts & tables)   | May  | 9   | 36   |
| icals from plant cell cultures   | Jan  | 4   | 18   | thetic elastorners at Borger, Tex N<br>Polychloroprene rubber dumped in U.S.   | Mar 1   | 4   | 11   | Gulf Oil agreement with OCAW: A  |  |   |  |
| Polysilanes: Reactive silicon polymers   | Jan  | 49  | 10   | by Japan, Commerce Dept. finds N<br>Tires see <b>Tires</b>   | Feb   | 1   | 25   | 'moderate' precedent for wage hikes<br>in 1984 N   | Jan 1  | R   | 9  |
| cause a stir   | May  | 30  | 22   | Tires see Tires  |   |   |  | More jobs but tight money  | May 2  |   | 17   |
| Raychem tries to get the magic back  | Jan  | 25  | 62   | Uniroyal plans Royalane EPDM capa-<br>city increase at Geismar, La R   | line.   |   | 47   | Outside directors: A seller's market for   |  |   |  |
| Research Corporation Trust: the U.S.<br>and U.K. join to spur European tech-   |  |   |  | Runway repair materials development  | June  | 0   | 17   | outside directors (charts)   | Feb  | 1   | 32   |
| nology N   | June   | 6   | 25   | program  | May 2   | 23  | 35   | Salt   |  |   |  |
| R&D: How stocks and R&D partner-   |  | 00  | 00   |  |   |   |  | Du Pont and Coastal sell trademark   |  |   |  |
| ships can interrelate N<br>R&D spending: Closeup of research   | Mar  | 28  | 33   | Russia<br>Greece plans alumina refinery: Soviet  |   |   |  | rights to heat-transfer salt to Olin R<br>Ozark-Mahoning's sodium sulfate ex-  | Jan  | 4   | 15   |
| and development. Another forward   |  |   |  | Union signs letter of intent N   | Mar :   | 28  | 22   | pansions: Moving up in the salt-cake   |  |   |  |
| and development. Another forward<br>year for CPI spending — McGraw-  |  |   |  | Montedison will build a polycarbonate  |   | -   | 40   | businessN  | Apr  | 4   | 9  |
| Hill survey (tables) R&D spending: industry increasing   | June   | 6   | 30   | plant  | Mar   | 7   | 19   | Substitutes: Pfizer introduces potas-  |  |   | 04   |
| spendingN  | Jan  | 4   | 44   | (chart)  | Mar   | 14  | 36   | sium benzoate  | Mar 1  | 4   | 24   |
| Restructuring: Basics and plastics can   |  |   |  | U.SSoviet trade: picking up again N  | May   |   | 18   | Saudi Arabia — Drug plant Janned N<br>Savinelli, Emilio A., president and chief  | Feb  | 8   | 17   |
| be special, too — Viewpoint  | May  | 23  | 3  |  |   |   |  | Savinelli, Emilio A., president and chief  |  |   |  |
| Restructuring and the need for spe-<br>cial people — Viewpoint   | May  | 30  | 3  | •  |   |   |  | executive officer of Brent Chemicals<br>Corp.: For BBC, no easy road to a  |  |   |  |
| Robots that will sniff chemicals   | Mar  | 14  | 29   | S  |   |   |  | turnaround   | June 1   | 3   | 21   |
| Seed research partnership to be formed   |  |   |  |  |   |   |  | Scientists' Institute of Public Information  |  | -   | -  |
| by Rohm and Haas Seeds and Coker<br>Pedigreed Seed   | Jan  | 25  | 17   | Safety   |   |   |  | Science in the streets: Let's clean up the act — Viewpoint   | Admir  |   |  |
| Separation Research Program at the   | Jan  | 20  | 1.0  | AFL-CIO's IUD plans funding for oc-  |   |   |  | Scotland — Shin-Etsui Handotai will build  | May  | Я   | 3  |
| University of Texas: New ways to   |  |   |  | cupational disease lawsuits N  | June  | 20  | 74   | silicon plant at Livingstone N   | Mar  | 7   | 19   |
| bring about cost-effective separation  |  | 10  | 24   | Airline safety's boost for fibers: FAA calls for fire-blocking seat fabrics  | Feb   | 15  | 13   |  |  |   |  |
| (table) Space: Aerojet's carousel exposing   | May  | 10  | 34   | Animal testing: Alternatives to animals  | Feb   | 10  | 13   | Seals & Sealants Adhesives makers court the clubby   |  |   |  |
| materials to the rigors of space N   | June   | 13  | 34   | in tests for safety N  | Apr   | 4   | 34   | auto market  | Mar :  | 28  | 10   |
| Space processing: A bit closer   | Apr  | 4   | 13   | Artists demand warning labels on their   | lan.  | 40  | 00   | Loctite: Can Loctite get back on track?  |  |   |  |
| Sugars: Monsanto and Oxford Univ. will<br>study the role of sugars in cell func-   |  |   |  | supplies   |   | 18  | 39<br>15   | (charts)   | Jan  | 11  | 28   |
| tions N  | Jan  | 4   | 29   | Automobiles see Automobiles  | 1414  |   |  | adhesives plant at Warren, expan-  |  |   |  |
| Synchrotron: Probing materials with a  |  |   |  | CO, lasers: OTA is checking the safety   |   |   |  | adhesives plant at Warren, expan-<br>sion at Oklahoma City N   | Feb  | 15  | 9  |
| synchrotron Ultrasonics: How ultrasound 'catal-  | Apr  | 18  | 23   | of CO <sub>2</sub> lasers in surgeryN<br>Detergents see <b>Detergents</b>  | Jan   | 11  | 42   | Selling  |  |   |  |
| vzes' catalysis  | Jan  | 18  | 29   | Drugs see Drugs  |   |   |  | Betz suing Petrolite and four of Petro-  |  |   |  |
| USDA gets more money for agricul-  |  |   |  | EPA inspections: Stauffer wins an in-  |   |   |  | lite's salesmen  | Feb  | 1   | 13   |
| tural biotech research N   | June   | 6   | 40   | spection suit N<br>Ethylene dibromide see <b>Ethylene Di</b> -   | Jan   | 18  | 44   | Export trading companies. Now banks  | home   | 0.7   | 00   |
| House deletes biotech, guayule rub-<br>ber funds   | June   | 13  | 40   | bromide  |   |   |  | are selling chemicals (table)  | June   | 21  | 92   |
| USDA to speed delivery of technology   |  |   |  | Farm workers: NACA announces new   |   |   |  | Inc., will pitch elastomers to Detroit .   | Jan  | 18  | 16   |
| to industry N<br>University of Wisconsin-Madison set-  | June   | 27  | 96   | safety program for farm workers ex-<br>posed to pesticides N   | Mar   | 7   | 40   | Consultus  |  |   |  |
| tles suit with Charles River Breeding  |  |   |  | Formaldehyde's run for life on the 'fast   |   |   | 40   | Separation Field-flow fractionation, a form of   |  |   |  |
| Laboratories over sale of genetical-   |  |   |  | track' (table)   | May   | 30  | 10   | chromatography: AAAS symposium .<br>ICI's separation device will be marketed   | June   | 6   | 34   |
| ly impure mice   | May  | 30  | 34   | Framingham, Mass. hassle over VC in<br>a railyard: are tank cars in "storage"  |   |   |  | ICI's separation device will be marketed   | hime   | 00  | 00   |
| new strength (charts & table)  | June   | 13  | 28   | or interstate commerce? (map)  | Feb   | 22  | 14   | by Glitsch N Packing's growing role in distillation  | June   | 20  | 26   |
| You're only as good as your technol-   |  |   |  | Lead acrylic polymer: A lower cost   |   |   |  |  | June   | 13  | 18   |
| ogy — Viewpoint  | Mar  | 28  | 3  | shield from radiation  |   | 25<br>11  | 69<br>42   | Separation Research Program at the   |  |   |  |
|  |  |   |  | Monsanto's Lasso herbicide ingredient  | Jan   |   | 42   | University of Texas: New ways to<br>bring about cost-effective separation  |  |   |  |
|  |  |   |  | alachlor: EPA now re-reviewing the   |   |   |  | (table)  | May  |   | 34   |
| Resins   |  |   |  |  |   |   | 13   |  |  | 16  |  |
| ABS see Plastics   | Mar  | ,   | 24   | safetyN  | June  | 20  |  |  |  | 16  | 0.4  |
| ABS see Plastics Acetal resin market: action heats up. N   | Mar  | 7   | 24   | safetyN  | June  | 20  |  | Shale Oil  |  | 16  | 0.4  |
| ABS see <b>Plastics</b> Acetal resin market: action heats up . N Ashland Chemical establishes Automotive Business Center to promote  |  | 7   |  | safety N<br>NIOSH<br>Respirator users face potential chem-<br>ical hazard N  | June  | 4   | 44   | Canada: Husky Oil's project moves for-   | June   |   |  |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. R   | Mar  | 7   | 24<br>17   | safety N<br>NIOSH<br>Respirator users face potential chem-<br>ical hazard N<br>Styrene: lower exposure limits called   | Jan   | 4   | 44   | Canada: Husky Oil's project moves for-<br>ward; partners sought N<br>Canada: Shell Canada may expand oil   | June   | 20  | 50   |
| ASS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins  | Feb  | 1   | 17   | safety N<br>NIOSH<br>Respirator users face potential chem-<br>ical hazard N<br>Styrene: lower exposure limits called<br>for N  |   |   |  | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May  | 20  | 50<br>25   |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins  | Feb  | 1 7   | 17<br>13   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over  | Jan<br>Jan  | 4   | 44   | Canada: Husky Oil's project moves for-<br>ward; partners sought N<br>Canada: Shell Canada may expand oil<br>sands plant in Alberta N<br>Canada's synfuels: A caulious phoenix  |  | 20  | 50   |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins. R Automobiles: Resins' fortunes ride with autos. Letter Celanese stakes out a new resins facil-   | Feb<br>Mar<br>Mar  | 1<br>7<br>28  | 17<br>13<br>5  | safety N NIOSH Respirator users face potential chemical hazard N Syrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety  | Jan   | 4   | 44   | Canada: Husky Oil's project moves for-<br>ward; partners sought N<br>Canada: Shell Canada may expand oil<br>sands plant in Alberta N<br>Canada's synfuels: A caulious phoenix<br>Paraho Development puts Paraho-Ute<br>project on hold N   | May<br>Feb   | 20<br>9<br>22   | 50<br>25   |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins. R Automobiles: Resins' fortunes ride with autos.  — Letter Celanese stakes out a new resins facil- tity. N  | Feb  | 1<br>7<br>28  | 17<br>13   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA  | Jan<br>Jan  | 4   | 44   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb<br>June   | 20<br>9<br>22<br>27   | 50<br>25<br>40<br>7  |
| ABS see Plastics Acetal resin market: action heats up N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins   | Feb<br>Mar<br>Mar<br>Feb   | 1<br>7<br>28  | 17<br>13<br>5  | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new asbestos limits N  | Jan<br>Jan  | 4 4 25  | 44   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb   | 20<br>9<br>22<br>27   | 50<br>25<br>40   |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. R Automobiles: Resins: fortunes ride with autos. — Letter Celanese stakes out a new resins facility. N Dow's new resins for business ma- chines: polycarbonates, ABS. N Ernser Industries' resin compounding  | Feb<br>Mar<br>Mar<br>Feb<br>May  | 1<br>7<br>28<br>8<br>16                                 | 17<br>13<br>5<br>9   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new asbestos limits N Auchter departs with very mixed re- N  | Jan<br>Jan<br>Jan<br>Apr                              | 4<br>4<br>25<br>18  | 44<br>44<br>13<br>52   | Canada: Husky Oil's project moves for-<br>ward; partners sought N. Canada: Shell Canada may expand oil<br>sands plant in Alberta N. Canada's synfuels: A cautious phoenix.<br>Paraho Development puts Paraho-Ute<br>project on hold N. SFC readies price and loan supports for<br>synfuels projects N. Sohio reconsiders shale and synfuel<br>strategies: withdraws from Paraho-   | May<br>Feb<br>June<br>Apr  | 20<br>9<br>22<br>27   | 50<br>25<br>40<br>7<br>58  |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automo- tive Business Center to promote automotive resins. R Automobiles: Resins' fortunes ride with autos.  — Letter Celanese stakes out a new resins facility. Dow's new resins for business ma- chienes; polycarbonates, ABS. M Ernser Industries' resin compounding operation at Sumiers. S. C. plant.   | Feb<br>Mar<br>Mar<br>Feb   | 1<br>7<br>28<br>8<br>16                                 | 17<br>13<br>5<br>9   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new asbestos limits N Auchter departs with very mixed re- N  | Jan<br>Jan<br>Jan                                     | 4<br>4<br>25<br>18  | 44<br>44<br>13   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb<br>June   | 20<br>9<br>22<br>27   | 50<br>25<br>40<br>7  |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. R Automobiles: Resins' fortunes ride with autos.  — Letter Celanese stakes out a new resins facility. N Dow's new resins for business machines: polycarbonates, ABS. M. Emser Industries' resin compounding operation at Sumter, S.C. plant. R Goodrich develops new PVC resin technology.  | Feb<br>Mar<br>Mar<br>Feb<br>May  | 1<br>7<br>28<br>8<br>16                                 | 17<br>13<br>5<br>9<br>44<br>16   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new asbestos limits N Auchter departs with very mixed re- views Awards to Mobil Chemical for supe- rior safety and health record at  | Jan<br>Jan<br>Jan<br>Apr<br>Mar                       | 4<br>4<br>25<br>18<br>14  | 44<br>44<br>13<br>52<br>58   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb<br>June<br>Apr  | 20<br>9<br>22<br>27   | 50<br>25<br>40<br>7<br>58  |
| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. R Automobiles: Resins 'fortunes ride with autos.  — Letter Celanese stakes out a new resins facil- tity on new resins for business ma- chines; polycarbonates, ABS Emser Industries' resin compounding operation at Sumter, S.C. plent. R Goodrich develops new PVC resin tech- nology Monsanto to expand Butvar polyvinyl  | Feb<br>Mar<br>Mar<br>Feb<br>May<br>Mar   | 1<br>7<br>28<br>8<br>16<br>7                            | 17<br>13<br>5<br>9<br>44<br>16<br>33   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called North control of N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety N Asbestos: OSHA offers tough new asbestos limits N Auchter departs with very mixed re- Auchter departs with very mixed re- Auchter departs with very mixed re- rior safety and health record at seven plants  | Jan<br>Jan<br>Jan<br>Apr                              | 4<br>4<br>25<br>18<br>14  | 44<br>44<br>13<br>52   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb<br>June<br>Apr  | 20<br>9<br>22<br>27   | 50<br>25<br>40<br>7<br>58  |
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| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. Fortunes ride with autos.  — Letter Celanese stakes out a new resins facility. N Dow's new resins for business machines: polycarbonates, ABS.  Emser Industries resin compounding Coodrich develops new PVC resin technology Monsanto to expand Butvar polyviny resin in Springfield, Mass. R Plastic resins. A rebound. N Plastics volume scored major 1983 gains.   | Feb<br>Mar<br>Feb<br>May<br>Mar<br>Mar<br>Apr<br>Jan                             | 1<br>7<br>28<br>8<br>16<br>7<br>9<br>4<br>18            | 17<br>13<br>5<br>9<br>44<br>16<br>33<br>16<br>28<br>25   | safety N NIOSH Respirator users face potential chem- ical hazard N Styrene: lower exposure limits called for N NutraSweet hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new asbestos limits N Auchter departs with very mixed re- Auchter departs with very mixed re- rior safety and health record at seven plants R Benzene: Union and industry still stalkling a benzene rule EPA, OSHA move on benzene standards: OSHA draft rule  | Jan<br>Jan<br>Apr<br>Mar<br>Feb<br>Jan                | 4<br>4<br>25<br>18<br>14<br>22<br>11  | 44<br>44<br>13<br>52<br>58<br>18<br>35   | Canada: Husky Oil's project moves for-<br>ward; partners sought  | May<br>Feb<br>June<br>Apr<br>Mar   | 20<br>9<br>22<br>27<br>11<br>7  | 50<br>25<br>40<br>7<br>58<br>40  |
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| ABS see Plastics Acetal resin market: action heats up. N Ashland Chemical establishes Automotive Business Center to promote automotive resins. R Automobiles: Resins' fortunes ride with autos.  — Letter Celanese stakes out a new resins facil- itly. N Dow's new resins for business ma- chines: polycarbonates, ABS. N Emser Industries' resin compounding operation al Sumiter, S.C. plant. A Good ich develops new PvC resin tech resin in Springfield, Mass. Picastic resins: A rebound N Plastics volume scored major 1983 gains Prices Robert Sees Silicones N Prices Specialties lead plastics' thrust. N Resins see allicones Specialties lead plastics' trust. N Resins case also specific resin Respirators — NIOSH warns of potential chemical hazard for respirator users. N Rhodium — UC/Ube Industries ethylene glycol 'Tour using indium resing in glant from bassive restructur- ing in a crummy business' (hatris). Robots — Robots that will onif chemicals Rockefeller University — Animal tests alternatives: Revion gives grant for Rockel Propeliants — A chemical push from the MX Roots & Rootling — Pantasote purchases Flexhilde single-oly roofling membrane   | Feb Mary Mar May Apr Jan Mar                 | 1 7 28 8 8 16 7 9 4 18 15 11 1 4 4 4 7 7 7 14 4 23      | 17<br>13<br>5<br>9<br>44<br>16<br>33<br>16<br>28<br>25<br>38<br>17<br>34<br>44<br>3<br>3<br>22<br>29<br>35       | safety NIOSH Respirator users face potential chem- ical hazard NSyrene: lower exposure limits called for lower hits a sour note: Arizona ruckus prompts controversy over safety OSHA Asbestos: OSHA offers tough new ausbestos limits Acher departs with very mixed re- views asbestos limits Acher departs with very mixed re- views to Mobil Chemical for supe- rior safety and health record at seven plants Benzene: Union and industry — still stalkling a benzene rule EPA, OSHA move on benzene standards; OSHA draft rule could be new starting place. IN Butadlene's potential risks weighe ed Next of the starting place in the starting place in the starting place in the starting place. IN Butadlene's potential risks weighe d Next of the starting place in the starting place in the starting place. IN Butadlene's potential risks weighe ed ards Next of the starting place in the starting place in the starting place. IN Butadlene's potential risks weight ed ards Next of the starting place in the starting place in the starting place. IN Butadlene's potential risks weight ed ards Next of the starting place in the starting place in the starting place. In the starting place  | Jan Jan Apr Mar Feb Jan June Apr Feb June Apr         | 4<br>4<br>25<br>18<br>14<br>22<br>11<br>6<br>4<br>27<br>18<br>8<br>27<br>18 | 44<br>44<br>13<br>52<br>58<br>18<br>35<br>40<br>44<br>102<br>38<br>40<br>102<br>37 | Canada: Husky Oil's project moves for- ward; partners sought   | May Feb June Apr Mar Feb Feb Apr Feb Mar | 20<br>9<br>22<br>27<br>11<br>7<br>8<br>1<br>15<br>8<br>11<br>22<br>21<br>14<br>30       | 50<br>25<br>40<br>7<br>58<br>40<br>36<br>20<br>11<br>14<br>9                                     |
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| Sierra Club — EPA is criticized for Super-<br>fund priorities  | June 2   | 20 7   | 74   | SoCal Edison   | Jan   | 4   | 29  | AB Biotechnics plant for continuous  |  | 20  | 47  |
|--|--|--|--|--|---|---|---|--|--|---|---|
| Silica   |  |  |  | operations of Solar Power subsidiary<br>at Woburn, Mass  | Apr   | 11  | 11  | production of ethanol from grain . R<br>Billerud completes chlor-alkali conver-  | May :  | 30  | 17  |
| Ammonia from wet air by use of silica  | _  |  |  | Solar electricity: no near-term payout . N   | Apr   | 11  | 11  | sion to membrane cell output N   |  | 22  | 20  |
| foam substrates N  | Feb  | 1 3  | 30   | Sol-gel processing — AAAS symposium  | June  | 6   | 34  | Cadmium ban reconsidered N   | Apr  | 11  | 24  |
| Silica processing plant planned by<br>Yuba Natural Resources R   | Mar 2  | 18 1   | 9  | Solvents   |   |   |   | Firms pursue integration N<br>KemaNord making strong bid for sodium  | Mar  | 7   | 19  |
|  |  |  |  | Chlorinated solvents prices N  | Mar   | 14  | 34  |  | Feb  | 15  | 18  |
| Silicates Silicate products: prices N  | June   | 6 3  | 35   | How solvent pulping gets more from the<br>tree   | Jan   | 4   | 26  | Neste's acquisition of Unifos Kemi ap-<br>proved   | Apr  | 4   | 18  |
| Stauffer plans ethyl silicate unit at  |  |  |  | Tests results submitted to EPA N   |   | 22  | 50  |  | ,401   | -   |   |
| Weston, Mich   | Apr  | 4 1  | 8  | Texaco launching new solvent for rayon   | A   | oc.   | 20  | Sweeteners   |  |   |   |
| Silicon  |  |  |  | manufacture, NMMO  | Apr   | 25  | 30  | Aspartame: Community Nutrition Insti-<br>tute files suit to ban sale R   | Feb  | 1   | 17  |
| Allied develops new silicon technolo-  |  |  |  | South Africa — Who'll win the soda ash<br>prize in Africa? African Selection Trust   |   |   |   | Aspartame: FDA turns down demands  |  |   |   |
| gies for use in semiconductors N<br>Dow Corning accepts Shin-Etsu Han-   | Jan  | 1 3  | 32   | and AECI fight it out (map)  | Apr   | 11  | 18  | for an aspartame hearing N<br>Aspartame: Searle's NutraSweet hits a  | Feb  | 29  | 40  |
| dotai as a partner in Hemlock Semi-  |  | _  |  | 22-28,   | May   | 2   | 31  | sour note as Arizona ruckus prompts  |  |   |   |
| Exxon Enterprises closes silicon-cell  | Mar  | 7 1  | 16   | Space Technology   |   |   |   | controversy over safety  | Jan  | 25  | 13  |
| operation of Solar Power subsidiary  |  |  |  | A chemical push from the MX  | Apr   | 4   | 12  | Saccharin: EC lifts restrictions on the<br>price of saccharin N  | Jan  | 4   | 16  |
| at Woburn, Mass N  | Apr  |  | 11   | Materials experience the rigors of space   |   |   |   | Searle, G. D., NutraSweet Group's  |  |   | -   |
| Improving silicon for defense N<br>Japan's Shin-Etsu Handotai will build   | Feb  | 8 3  | 34   | using Aerojet's carousel N<br>Space processing: A bit closer   | June<br>Apr   | 4   | 34<br>13  | president, Robert B. Shapiro: A sweet  | Feb  | 8   | 36  |
| plant at Livingstone, Scotland N   | Mar  | 7 '  | 19   |  | s dos   | 7   |   | choice for a group president   | 1 60   | 0   | 30  |
| Molecular-computer research: bioengi-<br>neered compounds could store more   |  |  |  | ERT has a better year — but stays in   |   |   |   | makers play hard-nosed polo in the pool: how 1983 markets shape up   |  |   |   |
| information on a silicon chip  | Feb  | 8 1  | 19   | the redN   | June  | 13  | 20  | (chart & table)  | Mar  | 7   | 10  |
| Packing more information into chips:   | F-1-   |  |  | ERT in deep financial trouble N  |   | 18  | 20  |  | Apr<br>May   | 4 2   | 5   |
| light-sensitive material N<br>Polysilanes: Reactive silicon polymers   | Feb 2  | 29 4   | 28   | ERT turns down acquisition offer for LDPE plant  | Feb   | 8   | 17  | - Correction   | мау  | 2   | 5   |
| cause a stir   | May :  | 30 2   | 22   | State companies likely to buy pieces   |   |   |   | Switzerland  |  |   |   |
| Schumacher signs Jacobs Engineering  | May  | 2  | 19   | of ERT N Polyethylene plant sale stalled N   | Apr<br>June   | 25  | 25<br>50  | Exports on the rise N Phosphate detergents banned N  | Feb<br>May   | 29  | 16  |
| for silicon-processing plant R UC plans polycrystalline silicon plant R  |  |  | 18   | Polyethylene plant sale stalled  | June  | 20  | 30  | Synthesis — Peptide synthesizers agree-  | way  | 23  | 10  |
|  |  |  |  | Specialty Chemicals  |   |   |   | ment signed by Hoffmann-LaRoche  |  |   |   |
| Allied reports better silicone cross-  |  |  |  | Ashland Oil: Building a business on<br>small business  | Apr   | 11  | 26  | and Vega Biotechnologies N<br>Synthesizing — Synthesizing garlic's ac-   | June   | 27  | 96  |
| linkers  | May  | 2 :  | 26   | Betz Laboratories Beaumont, Tex. plant   | . 40.   |   |   | Synthesizing — Synthesizing garlic's active ingredient: Univ. of Minnesota   |  |   |   |
| GE commercializing technology for  |  |  |  | to make complete line of its inor-   |   |   |   | study at ACS meeting   | Apr  | 18  | 37  |
| silicone polyimide dielectric coating technology   | Mar  | 7  | 16   | ganic and organic specialty chemi-<br>calsR  | Apr   | 11  | 23  | Synthetic Organic Chemical Manufac-  |  |   |   |
| Silver — Inventories rise N  | Jan  | 18 3   | 28   | ChemDesign: 'Buy American'   | Mar   | 21  | 14  | turers Assn.   |  |   |   |
| Singapore  |  |  |  | Dow aims to boister specialty-chemi-<br>cals businesses N  | Mar   | 21  | 9   | Chemical water. Winners and losers in<br>the coming crisis (map, tables,   |  |   |   |
| Ethylene-based petrochemical complex   |  |  |  | Italy's specialty firms: Takeover targets  |   |   |   | charts)  | Feb  | 22  | 34  |
| on Merbau Island readies for start-  | lan  |  | 10   | (chart)  | Jan   | 4   | 17  | GSP reforms proposedN  | Feb  | 15  | 48  |
| Sumitomo says China may become the   | Jan  | 4  | 16   | Kaiser's game plan to get Harshaw<br>back in shape   | Feb   | 8   | 22  | Lang, Ronald A.: SOCMA's 20-year<br>man works a 60-hour week   | Jan  | 25  | 59  |
| single largest client for LDPE and   |  |  | 00   | Medical diagnostics: Hot and tough to  |   |   |   | Lang, Ronald, SOCMA's chief, moving  |  |   |   |
| polypropylene from Singapore unit . N<br>Sizing — Sizing compressors from a data   | Mar  | 14   | 28   | crack — Viewpoint  | Feb   | 29  | 3   | from Scarsdale, N.Y. to Washington, D.C.   | Apr  | 11  | 58  |
| base: Atlas Copco pilot program gives  |  |  |  | for chemicals and hardware (table)   |   | 29  | 30  | 0.0.   | Apr  |   | 50  |
| the customer access to the supplier's mainframe  | Bánu   | 2  | 25   | Raychem tries to get the magic back  | Jan   |   | 62  |  |  |   |   |
| Society of Automotive Engineers — 1984   | May  | 2  | 23   | Stabilizers — Prices   | June  | . 0   | 35  | _  |  |   |   |
| International Congress and Exposition:   | Mar  | 7  | 10   | Stanford University  | A   | 44  | 25  |  |  |   |   |
| Resins' fortunes ride with autos Society of the Plastics Industry — PVC  | Mar  | 7  | 13   | Ordered polymers research  | Apr<br>Mar  | 11  | 35<br>29  |  |  |   |   |
| demand swings up again (chart)   | Apr  | 4  | 25   | Starch — Commodities from biomass:   |   |   |   | Tar Sands  |  |   |   |
| Sode Ash   |  |  |  | where we're headed   | Apr   | 4   | 36  | Canada's synfuels: A cautious phoenix  | Feb  | 22  | 40  |
| Exports set a record in 1983 N Jan   |  |  |  | tors — Cogeneration  |   |   |   | Santa Rosa tar sands: Solv-Ex with-  | l  |   |   |
| 18-28. N   | Feb  | 29   | 23   | Stearates — Prices N   | Mar   | 7   | 24  | draws application for aid from SFC N<br>SFC readies price and loan supports for  | Jan  | 4   | 44  |
|  |  |  | 60   |  |   | 11  | 33  | synfuels projectsN   |  | 11  | 58  |
| Prices N Mar 7-24, N June 13-24, N   | June   | 20   | 42   | Sterilization — Some rays of hope for<br>irradiating food (chart)  | Apr   |   |   |  | Apr  |   |   |
| Prices N Mar 7-24, N June 13-24, N<br>Soda ash bounds ahead N<br>South Africa: Who'll win the soda ash   |  | 20   | 42   | irradiating food (chart)   | Apr   |   | -   | Tariffe  | Apr  |   |   |
| Prices N Mar 7-24, N June 13-24, N<br>Soda ash bounds ahead N<br>South Africa: Who'll win the soda ash<br>prize? African Selection Trust and   | June<br>Mar  | 20<br>28   |  | irradiating food (chart)  Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest   |   |   |   | Tariffs Chemical trade squabbles: The indus-   | Apr  | , .   |   |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map) Thailand nixes soda ash project N  | June<br>Mar  | 20<br>28   | 42<br>18<br>20                             | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab. Norms — The recent freeze takes its oil   | Apr<br>May<br>Jan   | 2   | ·37   | Chemical trade squabbles: The indus-<br>try is divided over protectionism  |  |   |   |
| Prices N Mar 7-24, N June 13-24, N<br>Soda ash bounds ahead N<br>South Africa: Who'll win the soda ash<br>prize? African Selection Trust and<br>AECI fight it out (map)<br>Thailand nixes soda ash project N<br>Sodium Bicarbonate — Is bicarb getting   | June<br>Mar<br>Apr   | 20<br>28   | 18   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toll Strategic Planning — How the experts   | May   | 2   | -37   | Chemical trade squabbles: The indus-<br>try is divided over protectionism<br>(charts)  | Apr  |   | 34  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map) Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking a burn rap? Church & Dwight asking   | June<br>Mar<br>Apr   | 20<br>28   | 18   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab Storms — The recent freeze takes its toll Strategic Planning — How the experts   | May   | 2 11  | -37<br>11   | Chemical trade squabbles: The indus-<br>try is divided over protectionism<br>(charts)  | Mar  | 28  |   |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map) Thailand nixes soda ash project . N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering  | June<br>Mar<br>Apr<br>Feb  | 20<br>28<br>11<br>22   | 18<br>20                                   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toll Strategic Planning — How the experts   | May   | 2 11  | -37   | Chemical trade squabbles: The indus-<br>try is divided over protectionism<br>(charts).<br>EC tightens the trade screws: metha-<br>nol, VAM, styrene, and PE sheet and<br>film subject to new fariffs (table)   | Mar  |   | 34<br>17  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: "Who"ll win the soda ash prize? African Selection Trust and AECI fight it out (map)  N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate —   | June<br>Mar<br>Apr   | 20<br>28<br>11<br>22   | 18   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab. N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene  | May   | 2 11  | -37<br>11   | Chemical trade squabbles: The indus-<br>try is divided over protectionism<br>(charts).<br>EC lightens the trade screws: metha-<br>nol, VAM, styrene, and PE sheet and<br>film subject to new tariffs (table).<br>Generalized System of Preferences:  | Mar  | 28  |   |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight if out (map) N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium-bicarbonate — Ethyl opens sodium-sodium-bicarbonate — Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in and calcium bromide powders plant in  | Apr<br>Feb   | 20<br>28<br>11<br>22   | 18<br>20                                   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC tightens the trade screws: new tariffs   | May<br>Jan<br>Mar   | 2<br>11<br>28   | 37<br>11  | Chemical trade squabbles: The indus-<br>try is divided over protectionism<br>(charts)<br>EC lightens the trade screws: metha-<br>nol, VAM, styrene, and PE sheet and<br>film subject to new tariffs (table)<br>Generalized System of Preferences:<br>Trade groups propose more reforms<br>for GSP  | Mar  | 28<br>25  |   |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate Sodium-Bromide — Ethyl opens sodium Sodium-Bromide — Ethyl opens sodium   | June<br>Mar<br>Apr<br>Feb  | 20<br>28<br>11<br>22   | 18<br>20                                   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab . N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene Et lightens the trade screws: new tariffs (table)   | May   | 2<br>11<br>28   | -37<br>11   | Chemical trade squabbles: The industry is divided over protectionism (charts).  EC lightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new tariffs (table).  Generalized System of Preferences: Trade groups propose more reforms for GSP.  ITC orders study to assess the 'health'.   | Mar<br>Jan<br>Feb  | 28<br>25<br>15  | 17  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark. R   | Apr<br>Feb   | 20<br>28<br>11<br>22   | 18<br>20                                   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab Notorms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC lightens the trade screws: new tariffs (table) Monomers see Monomers NICSH calls for lower styrene exposure   | May<br>Jan<br>Mar   | 2<br>11<br>28<br>25   | 37<br>11<br>11  | Chemical trade squabbles: The industry is divided over protectionism (charts). EC tightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new tariffs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP.  ITC orders study to assess the "health" of the chemical industry. Nethanol: EC tariff assessment and   | Mar<br>Jan<br>Feb<br>Apr   | 28<br>25<br>15<br>25  | 17<br>48<br>76  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map) Thailand nikes soda ash project N Sodium Bicarbonate Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rubes on sodium-content labeling for food covering sodium-bicarbonate Sodium-Bromide — Ethyl opens sodium Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium Chlorate KemaNord Bleaching Chemical plans   | Apr<br>Feb   | 20<br>28<br>11<br>22   | 18<br>20                                   | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab . N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC tightens the trade screws: new tariffs (table) Monomers see Monomers NIOSH calls for lower styrene exposure limits . N   | May<br>Jan<br>Mar<br>Jan  | 2<br>11<br>28<br>25   | 37<br>11<br>11  | Chemical trade squabbles: The industry is divided over protectionism (charts).  EC lightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new tariffs (table) Generalized System of Preferences: Trade groups propose more reforms for GSP  | Mar<br>Jan<br>Feb  | 28<br>25<br>15  | 17  |
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| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium Chlorate KemaNord Bleaching Chemical plans capacity boost at Columbus, Miss. plant. N KemaNord making a strong bid for  | Apr<br>Feb   | 20<br>28<br>11<br>22<br>23<br>28   | 18<br>20<br>12<br>19                       | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrens EC lightens the trade screws: new tariffs (table) Monomers see Monomers NICSH calls for lower styrene exposure limits N Sugar — Monsanto and Oxford Univ. will study the role of sugars in cell func-   | May<br>Jan<br>Mar<br>Jan<br>Jan<br>May  | 2<br>11<br>28<br>25<br>4<br>9   | 37<br>11<br>11<br>17<br>44<br>60  | Chemical trade squabbles: The industry is divided over protectionism (charts). EC tightens the trade screws: methanol, WAM, styrene, and PE sheet and film subject to new lartiffs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP. NITC orders study to assess the "health" of the chemical industry. N Methanol: EC tariff assessment and U.S. congressional action.   | Mar<br>Jan<br>Feb<br>Apr   | 28<br>25<br>15<br>25  | 17<br>48<br>76  |
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| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate. Sodium-Bromide — Ethyl opens sodium-content labeling for food covering sodium bicarbonate Sodium-Bromide — Ethyl opens sodium-magnolia, Ark.  Sodium-Chlorate KemaNord Bleaching Chemical plans capacity boost at Columbus, Miss. plant. N KemaNord making a strong bild for sodium chlorate market in North America.   | June<br>Mar<br>Apr<br>Feb<br>May   | 20<br>28<br>11<br>22<br>23<br>28   | 18<br>20<br>12<br>19                       | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC lightens the trade screws: new tariffs (table) Monomers see Monomers NIOSH calls for lower styrene exposure limits N Styrene-Butacliene Latex — Prices N Sugar — Monsanto and Oxford Univ. will study the role of sugars in cell func- tions  Sulfur   | May<br>Jan<br>Jan<br>Jan<br>May   | 2<br>11<br>28<br>25<br>4<br>9   | 37<br>11<br>11<br>17<br>44<br>60  | Chemical trade squabbles: The industry is divided over protectionism (charts). EC lightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new lartifs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP. NITC orders study to assess the health of the chemical industry. Nethanol: EC tariff assessment and U.S. congressional action.  Taxation  Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges. R. Golden parachutes': bill would impose  | Mar<br>Jan<br>Feb<br>Apr   | 28<br>25<br>15<br>25<br>7   | 17<br>48<br>76  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium Chlorate KemaNord Bleaching Chemical plans capacity boost at Columbus, Miss. plant. KemaNord making a strong bid for sodium chlorate market in North America.  Nin's HO Process joint venture at Alabama River Pulp's Clairborne, Alabama  | June<br>Mar<br>Apr<br>Feb<br>May<br>Mar                                  | 20<br>28<br>11<br>22<br>23<br>28<br>15   | 18<br>20<br>12<br>19<br>9                  | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC lightens the trade screws: new tariffs (table) Monomers see Monomers NICSH calls for lower styrene exposure limits N Sugar — Monsanto and Oxford Univ, will study the role of sugars in cell func- tions  Suffur Consumption rises N Sugar — Monsanto and Oxford Univ, will study the role of sugars in cell func- tions N   | May<br>Jan<br>Mar<br>Jan<br>Jan<br>Jan  | 2<br>11<br>28<br>25<br>4<br>9<br>4  | 37<br>11<br>11<br>17<br>44<br>60<br>29  | Chemical trade squabbles: The industry is divided over protectionism (charts). EC tightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new lariffs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP.  I'C orders study to assess the 'health' of the chemical industry.  N Methanol: EC tariff assessment and U.S. congressional action  Taxation  Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges. R 'Golden parachutes': bill would impose exists tax payments under 'Golden.   | Mar<br>Jan<br>Feb<br>Apr<br>Mar  | 28<br>25<br>15<br>25<br>7   | 17<br>48<br>76<br>12  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thalland nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate. Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium Chlorate KemaNord Bleaching Chemical plans capacity boost at Columbus, Mis. N KemaNord making a strong bid for sodium chlorate market in North America.  Olin's Ho Process joint venture at Nabuma River Pulp's Clairborne, Ala. pulp mill onstream  | June Mar Apr Feb May Mar Feb June  | 20<br>28<br>11<br>22<br>23<br>28<br>15<br>15   | 18<br>20<br>12<br>19<br>9<br>18            | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC lightens the trade screws: new tariffs (table) Monomers see Monomers NICSH calls for lower styrene exposure limits N Sugar — Monsanto and Oxford Univ. will study the role of sugars in cell func- tions N Suffur Consumption rises N Demand is off to a strong start N Demand is off to a strong start N Florida readies for dry suffur: state per-   | May<br>Jan<br>Jan<br>Jan<br>May   | 2<br>11<br>28<br>25<br>4<br>9<br>4  | 37<br>11<br>11<br>17<br>44<br>60  | Chemical trade squabbles: The industry is divided over protectionism (charts). EC tightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new lariffs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP.  I'C orders study to assess the 'health' of the chemical industry.  N Methanol: EC tariff assessment and U.S. congressional action  Taxation  Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges. R 'Golden parachutes': bill would impose exists tax payments under 'Golden.   | Mar<br>Jan<br>Feb<br>Apr<br>Mar  | 28<br>25<br>15<br>25<br>7   | 17<br>48<br>76<br>12  |
| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map). Thalland nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting a burn rap? Church & Dwight asking FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate. Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium Chlorate  KemaNord Bleaching Chemical plans capacity boost at Columbus, Mis. N Co | June Mar  Apr Feb  May  Mar  Feb  June May                               | 20<br>28<br>11<br>22<br>23<br>28<br>15<br>15<br>27<br>30                                     | 18<br>20<br>12<br>19<br>9<br>18            | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table).  Styrane EC lightens the trade screws: newtariffs (table). Monomers see Monomers NIOSH calls for lower styrene exposure limits N Sugar — Monosanto and Oxford Univ. will study the role of sugars in cell func- tions N Swaltur Consumption rises N Demand is off to a strong start N Florida reacties for dry sulfur: state per- mit would save Agrico Chemical  | May<br>Jan<br>Jan<br>Jan<br>Jan<br>Apr  | 25<br>25<br>4<br>9<br>4<br>25<br>25<br>25   | 37<br>11<br>11<br>17<br>44<br>60<br>29<br>24<br>57                                | Chemical trade squabbles: The industry is divided over protectionism (charts). EC lightens the trade screws: methanol, VAM, styrene, and PE sheet and film subject to new lartifs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP. NITC orders study to assess the health of the chemical industry. Nethanol: EC tariff assessment and U.S. congressional action.  Taxation  Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges. R. Golden parachutes': bill would impose  | Mar<br>Jan<br>Feb<br>Apr<br>Mar  | 28<br>25<br>15<br>25<br>7<br>23   | 17<br>48<br>76<br>12  |
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| Prices N Mar 7-24, N June 13-24, N Soda ash bounds ahead. N South Africa: Who'll win the soda ash prize? African Selection Trust and AECI fight it out (map) Thailand nixes soda ash project. N Sodium Bicarbonate — Is bicarb getting FDA to reconsider rules on sodium-content labeling for food covering sodium bicarbonate. Sodium-Bromide — Ethyl opens sodium and calcium bromide powders plant in Magnolia, Ark.  Sodium-Chlorate KemaNord Bleaching Chemical plans capacity boost at Columbus, Miss. plant. R Sedium chlorate market in North America.  Olin's HO Process joint venture at Alabama River Pulp's Clairborne, Alapulp mill onstream. R Prices N Mar 14-34. N Sodium Chlorate—Olin expands registration for all grades of sodium chlorite. Sodium-Hydroculfide — Prices N Jan 11-25. Sodium-Hydroculfide — Prices N Jan 11-25. Sodium Markets for swimming pool chemicals shape up (chart & table).  Sodium Methylate—Prices  Courtaulds North America's Mobile, Ala rayon plant to upgrade the quality of sodium sulfate. North America's Mobile, Ala rayon plant to upgrade the quality of sodium sulfate expansions: Moving up in the salt-cake vanisions: Moving up in the salt-cake saltcake Podicasas. N  | June Mar Apr Feb May Mar Feb June May Apr June Apr Apr Apr Apr Apr       | 20<br>28<br>11<br>122<br>23<br>28<br>15<br>15<br>15<br>27<br>30<br>25<br>20<br>7<br>25<br>22 | 18 20 12 19 9 18 15 24 22 60 10 57 18 9 16 | irradiating food (chart) Storage — Dry storage of spent nuclear fuel gets vote from Pacific Northwest Lab N Storms — The recent freeze takes its toil Strategic Planning — How the experts plan strategy: conference on strategy planning (table)  Styrene EC lightens the trade screws: new tariffs (table) Monomers see Monomers NICSH calls for lower styrene exposure limits N Styrene-Butadiene Latex — Prices N Styrene-Butadiene Latex — Prices N Sugar — Monsanto and Oxford Univ, will study the role of sugars in cell func- tions N Suffur Consumption rises N Demand is off to a strong start N Demand is off to a strong start N Demand is off to a strong start N Florida readies for dry suffur: state per- mit would save Agrico Chemical plenty Markets turn around N Rising shipments slice suffur stocks N Sulfur Dioxides ee Air Pollution; Desul- furtzation Sulfur Oxides — EPA proposes limits on sulfur oxides — EPA proposes limits on sulfur oxides — EPA proposes limits on sulfur oxides rem calcales of the strategy of the strength of the stren | May Jan Mar Jan Jan Apr Feb Jun Mar Jan Mar | 25<br>11<br>28<br>25<br>4<br>9<br>4<br>25<br>25<br>25<br>25<br>22<br>22<br>27<br>27<br>14 | 37<br>111<br>11<br>17<br>44<br>60<br>29<br>24<br>57<br>12<br>23<br>16<br>42<br>80 | Chemical trade squabbles: The industry is divided over protectionism (charts). EC tightens the trade screws: methanol, WAM, styrene, and PE sheet and film subject to new lartiffs (table). Generalized System of Preferences: Trade groups propose more reforms for GSP.  NITC orders study to assess the 'health' of the chemical industry. N Methanol: EC tariff assessment and U.S. congressional action.  Taxation  Beker Phosphate in legal battle with Florida's Manatee County property appraiser over two floating dredges. R 'Golden parachutes': bill would impose excise tax payments under "golden 'parachute' contracts. N Superfund's tax base (chart).  Technology  Goodrich forms science and technology advisory board. R Restructuring: Basics and plastics can be special, too — Viewpoint.  Restructuring and the need for special people — Viewpoint.  Restructuring and the need for special people — Viewpoint.  Telephone — Pacific Chemical Products files damage suit against the installers and providers of new telephone system. Service of the providers of new telephone system.   | Mar<br>Jan<br>Feb<br>Apr<br>Mar<br>Mar<br>Apr<br>Mar<br>May<br>Mar<br>May<br>May<br>June | 28<br>25<br>15<br>25<br>7<br>23<br>14<br>25<br>14<br>23<br>30<br>28<br>113      | 17<br>48<br>76<br>12<br>17<br>11<br>12<br>24<br>3<br>3<br>3 |

| Terpenes — Squeezing insecticides from                                       |        |      |    | Titanium Dioxide   |        |    |      | Health Sciences - 'Military' gene pro-  |            |      |     |
|--|--------|------|----|--|--------|----|------|---|------------|------|-----|
| oranges: fire ants, flies, fleas and   |        |      |    | Du Pont committed to titanium dioxide  |        |    |      | ject to combat dysentery triggers bio-  |            |      |     |
| weevils succumb to oils extracted from                                       | lune   | 0.7  | 00 | white pigment business   |        | 4  | 11   | logical-warfare debate  | Feb        | 15   | 12  |
| Terphenyl — EPA planning notification  | June : | 21   | 20 | Production   | Jan 2  | 25 | 24   | United Arab Emirates — Mideast chemicals buildup continues N  | Feb        | 1    | 20  |
| plans for chlorinated terphenyl N  | Apr    | 4    | 40 | plants from Laporte Industries N<br>Titanium Trichloride — Catalyst Resour-                      | Apr 2  | 25 | 25   | icais bundop continues  | 1.60       | ,    | 20  |
| Tertiary Butyl Alcohol — Arco Chemical                                       | Mar    | 00   | 20 | Titanium Trichloride — Catalyst Resour-  |        |    |      | United Nations  |            |      |     |
| Europe: To build or not to build?  | Mar    | 28   | 39 | ces' polypropylene polymerization  | Feb 1  | 15 | 33   | Mediterranean pollution pact remains  | May        | 2    | 20  |
| Testing  | _      |      |    | catalyst Lynx 900 N<br>Tobacco — Merrell Dow's Nicorette,  |        |    | 00   | elusive N<br>UNEP seeks controls on pesticide   | ividy      | -    | 20  |
| Anilines: EPA looking for the right test . N                                 | Feb    | 8    | 40 | chewing gum, helps smokers quit  | Mar :  | 14 | 22   | trade N   | Apr        | 4    | 18  |
| Animal testing Alternatives sought: Revion grant to                          |        |      |    | Toluene  |        |    |      |   |            |      |     |
| support research at Rockefeller  |        |      |    | EPA will not regulate tolueneN   | May 3  | 30 | 40   | U.S. Air Force Air Force Materials Lab: Reactive sili-  |            |      |     |
| Univ   | May    | 23   | 35 | Octane boosting: BTX vs oxygenates   |        |    |      | con polymers cause a stir   | May :      | 30   | 22  |
| Alternatives to animals in tests for   |        |      | 04 | battle over lead substitutes (chart)   | Mar 2  | 28 | 27   | A dioxin report for everyone: study sup-  |            |      |     |
| safety N<br>Cancer risk assessment: ACSH report                              | Apr    | 4    | 34 | Prices N Feb 1-25,   | Mar    | 14 | 34   | ports many views in the Agent Orange<br>case; "Ranch Hands" group studied                             | Mar        | 14   | 20  |
| questions federal regulatory agen-   |        |      |    | demand: business picks up for raw  |        |    |      | Lasers that strip paint wantedN   | Apr        | 4    | 34  |
| cies' exposure/risk assumptions  | May    | 9    | 26 | materials  | Apr    | 11 | 15   | Program to develop new materials for  |            |      |     |
| Hilltop Lab Animals trying to breed<br>genetically pure lab animals N        | June   | 6    | 25 | Toxics   |        |    |      | repairing runwaysN  | May        | 23   | 35  |
| University of Wisconsin-Madison set-   | Julie  | 0    | 23 | Activists gear up for a push on toxics. N  | Feb    | 15 | 48   | U.S. Army   |            |      |     |
| tles suit with Charles River Breed-  |        |      |    | CIIT: A decade of success for CIIT   | June : |    | 83   | Bleach manufacturer wanted to build plant for "super-tropical bleach", a                              |            |      |     |
| ing Laboratories over sale of genet-   | Many   | 30   | 34 | CIT toxicity testing: The pace is  | lumn ! | 22 | O.F. | plant for "super-tropical bleach", a  |            |      |     |
| Benzene: EPA wants toxicity tests for  | May    | 30   | 34 | CIIT: Hanny 10th hirthday — and many   | June : | 21 | 85   | decontaminant for mustard gas N   | Mar        | 14   | 11  |
| chlorinated benzenes N   | Jan    | 25   | 80 | CIIT: Happy 10th birthday — and many more! — Viewpoint   | June : | 27 | 3    | Enzyme may offer protection from<br>nerve gas: contract to Bio-Re-                                    |            |      |     |
| chlorinated benzenes N<br>Biological testing for toxics in water             |        | 04   | 04 | Computers on the track of toxic fumes.   | Mar    | 7  | 36   | sponse N Jan 25-19, N   | Feb        | 29   | 28  |
| backed by EPA N<br>Cancer  | Mar    | 21   | 84 | EPA's OPTS: Bringing balance to toxics   |        |    |      | Time-release herbicides   | May        | 23   | 32  |
| Du Pont develops medical assay kits  |        |      |    | rule making; Moore: 'We must en-<br>sure that all parties know how we                            |        |    |      | U.S. Coast Guard — Battelle study to im-  | Mar        | 14   | 46  |
| for physicians to use in prescribing   |        |      |    | make our decisions'  | May    | 9  | 53   | prove coatings for buoys N U.S. Defense Dept. — Synfuels needed for space-age tests: NRC report urges | IVICA      |      | 40  |
| treatment for women with breast  | F-1-   | 40   | 40 | Florida leads the way in regulating  |        |    |      | for space-age tests: NRC report urges   |            |      |     |
| cancer   | Feb    | 15   | 16 | toxics: new rules set levels for 137 chemicals in drinking water                                 | Apr    | 4  | 14   | the department to build its own facility  | Jan        | 4    | 14  |
| computer assist for the Ames test .  | Mar    | 21   | 14 | Microorganisms that eat toxic chemi-   | Apr    | 4  | 1-0  | (table)   | Jan        | **   | 144 |
| CIIT: A decade of success for CIIT   | June   | 27   | 83 | cals N   | Mar :  | 28 | 33   | U.S. Dept. of Agriculture   |            |      |     |
| CIIT: Happy 10th birthday — and many more! — Viewpoint                       | l      | 07   | 3  | Suit the action to the word — and vice   |        | 00 |      | Alcohol fuels research grants to be   |            |      |     |
| City of Hope develops test that can de-                                      | June   | 21   | 3  | versa — Viewpoint  | June   | 20 | 3    | funded N<br>Allelopathy research by Bradow and  | Jan        | 18   | 44  |
| tect certain genetic diseases by   |        |      |    | testing out to the toxics  | May    | 30 | 35   | Leather   | May        | 2    | 30  |
| "reading" an individual's DNAN   | Mar    | 21   | 78 | Victims' compensation: Reagan with-  |        |    |      | Birth-control chemical for cockroach-   | ividy      | -    | 30  |
| Cyclohexanone: EPA lets industry do<br>tests on a nylon precursor            | Feb    | 8    | 40 | holds victims' compensation sup-<br>port   | Mar    | 20 | 48   | es  | June       | 27   | 96  |
| tests on a nylon precursorN Diagnostic testing see <b>Diagnostics</b>        | ren    | 0    | 40 | Toys — Mattel making toy parts from re-  | Mai    | 20 | 40   | Budget: more money for agricultural   | luna       |      | 40  |
| EPA seeks more test data on five chem-                                       |        |      |    | Toys — Mattel making toy parts from re-<br>sins filled with BaSO <sub>4</sub> that show up on    |        |    |      | biotech research N<br>House deletes biotech, guayule  | June       | 10   | 40  |
| icalsN   | Feb    | 29   | 40 | X-rays   | Apr    | 11 | 20   | rubber funds N  | June       | 13   | 40  |
| Ethylene oxide: EPA will wait for the re-<br>sults of ethylene oxide tests N | lon    | 11   | 42 | Tracers — Simple monitoring of hazard-<br>ous waste incineration                                 | Feb    | 1  | 30   | Commodities from biomass: delignifica-  |            |      | 0.7 |
| Industrial Bio-Test Laboratories sen-  | Jan    | 11   | 42 | ous waste incineration N. Trade group for small biotech firms                                    | reb    | ,  | 30   | forecasts fertilizer growth N   | Apr<br>Mar | 7    | 37  |
| tences for three former employees. R   | Apr    | 18   | 17 | formed: the Association of Biotechnol-   |        |    |      | Speeding delivery of technology to  | 14701      |      |     |
| Infertility: Probing chemical causes of                                      |        |      |    | ogy Companies (table)  | Jan    | 25 | 13   | Speeding delivery of technology to<br>industry: technology coordinator,                               |            |      |     |
| infertility; Lamb's test<br>Liquid gas spills to be simulated at test        | Feb    | 15   | 26 | Trade Secrets — FIFRA data disclosure?   |        |    |      | James T. Hall, appointed; tailors<br>agency-wide computer system N                                    | June       | 27   | 96  |
| facility to be built by EPA N  | Mar    | 14   | 58 | Is it unconstitutional? Supreme Court will decide Monsanto-EPA dispute                           | Mar    | 7  | 14   | Time-release herbicides   | May        | 23   | 32  |
| MDA in workers: more tests ahead N   | Jan    | 11   | 42 |  |        |    |      | U.S. Dept. of Commerce — ITA's Basic  |            |      |     |
| Plasticizers and solvents manufac-<br>turers submit more test data to EPA N  | Fab    | 00   | 50 | Tradenames & Trademarks  |        |    |      | Industries Sector program will inform   | Admir      | 10   | 68  |
| , r-DNA field testing see DNA  | Feb    | 22   | 50 | American Cyanamid puts Formica<br>Brand Products Group and trade-                                |        |    |      | the chemical industry on trade N  | May        | 10   | 00  |
| TAGA, "super sniffer": Taking toxics   |        |      |    | mark up for sale   | May    | 16 | 16   | U.S. Dept. of Energy  |            |      |     |
| testing out to the toxics  | May    | 30   | 35 | Countering counterfeit goods: legisla-   |        |    |      | Coal-cleaning schemes to be probed. N   | Jan        | 25   | 80  |
| TSCA see Law — Toxic Substances<br>Control Act                               |        |      |    | tion aims at curbing products with<br>bogus trademarks   | May    | 2  | 16   | Idaho Laboratory Facility consolidates<br>experimental programs N                                     | June       | 13   | 34  |
| Toxics: NRC report finds too little toxici-                                  |        |      |    | Training — Biotechnology report from   | way    | -  | 10   | Nuclear weapons plant must obey ha-   | ound       | 10   |     |
| ty data for TSCA chemicalsN  | Mar    | 7    | 40 | OTA: To ensure biotech's future —  |        |    |      | zardous waste laws  | Apr        | 25   | 22  |
| Texas A&M University — Chandler at ACS                                       | Mari   | 0    | 20 | Viewpoint  | Feb    | 1  | 3    | Staff reorganization for purchasing oil   | Feb        | 1    | 42  |
| symposium on allelopathy   | May    | 2    | 28 | The tenuous U.S. lead in biotech-<br>nology (chart)  | Feb    | 1  | 21   | for the strategic petroleum reserve N<br>Transferring operation and manage-                           | 1 60       |      | 42  |
| phogypsum wastes: researchers look   |        |      |    | Transportation see Aeronautics; Rail-  | , 00   |    |      | Transferring operation and manage-<br>ment of HYGAS/PEATGAS pilot plant                               |            |      |     |
| at use as a road base and a construc-  |        |      |    | roads; Shipping; Trucks  |        |    |      | to IGIN   | Jan        | 25   | 80  |
| tion material  | Apr    | 25   | 52 | Trees — Forest biotechnology sympo-  |        |    |      | A vote for dry storage of spent nuclear<br>fuel from Pacific Northwest Lab N                          | May        | 2    | 37  |
| Textiles   |        |      |    | sium: Trees may be cultivated for their chemicalsbut it also may prove                           |        |    |      | U.S. Dept. of Energy see also Energy Crisis; Fuels — Synthetic fuels, etc.                            | widy       | -    | 0.  |
| Forecast: An upbeat forecast for fibers                                      |        |      |    | costlyN  | June   | 20 | 26   | Crisis; Fuels — Synthetic fuels, etc.   |            |      |     |
| from Econoviews InternationalN   | Feb    | 1    | 25 |  |        |    |      | U.S. Forest Service   |            |      |     |
| France: textile consumption N<br>Imports: To stem the rising tide of tex-    | Apr    | 25   | 25 | 2,4,5-Trichlorophenoxyacetic Acid  |        |    |      | Aerial spraying of herbicides curtailed . N   | Apr        | 25   | 76  |
| tile imports (table)   | Feb    | 8    | 15 | Agent Orange House backs payments to Vietnam   |        |    |      | Spraying herbicides in U.S. forests   |            |      |     |
| Textile mill activity: Fibers had a good                                     |        |      | 40 | veterans for Agent Orange ex-  |        |    |      | banned: opponents predict a mas-<br>sive economic upheaval  | May        | 2    | 15  |
| first quarter  | Mar    | 26   | 12 | posure N   | Feb    | 8  | 40   | U.S. Geological Survey — Report that  | · Andry    | -    |     |
| Thailand — Soda ash project "indefinitely                                    |        |      |    | U.S. Air Force study supports many   |        |    |      | acid rain has stabilized in the North-  | E-t-       |      |     |
| suspended" N   | Feb    | 22   | 20 | "Ranch Hands" group studied  | Mar    | 14 | 20   | east  | Feb        | 8    | 34  |
| The section  |        |      |    | views in the Agent Orange Case;<br>"Ranch Hands" group studied<br>CDC's Agent Orange/Vietnam Ex- |        |    |      | U.S. Navy — Asbestos insulation removal with new process  | Apr        | 4    | 34  |
| Thermoplastics Celanese may buy Oxy's Durel poly-                            |        |      |    | perience study details (table)   | Mar    | 28 | 14   | with new process  |            |      |     |
| arylate engineering-resins opera-  |        |      |    | Agent Orange case The Agent Orange surprise  | May    | 16 | 24   | Chemical trade squabbles: Reinstein —   |            |      |     |
| tion   | June   | 20   | 13 | Tentative settlement: payments N   | May    |    | 4    | An inevitable loss of U.S. home and export markets  | Mar        | 28   | 35  |
| performance thermoplastic resins. N  | June   | 27   | 90 | Pressing for federal review of Agent   |        |    |      | U.S. Water Resources Council - Chem-  | 101001     |      | -   |
| Plastics recovery maintains momen-   | June   | 3 21 | 30 | Orange claimsN Triclopyr — Herbicide spraying bans   | May    | 30 | 40   | ical water. Winners and losers in the   |            |      |     |
| tum N  | May    | 9    | 60 | issued in Oregon and Washington R  | Mar    | 21 | 18   | coming crisis (map, tables, charts)<br>University of Akron — Polymer Institute:                       | Feb        | 22   | 34  |
| Poduction of plastics outpaces gains in                                      |        | - 00 | 00 | Trona — Water worries delay FMC trona  |        | -  |      | major cornerstone of Thomas Alva  |            |      |     |
| sales  | June   | 25   | 60 | project in WyomingN  | Jan    | 25 | 9    | major cornerstone of Thomas Alva<br>Edison Program, Ohio's quest for high-                            |            |      | 2.5 |
| Thionyl Chloride — Prices N  | May    | 23   | 25 | Trona. Soda ash see also <b>Soda Ash</b><br>Trucks & Trucking — Florida judge's                  |        |    |      | tech ventures (table) University of Arizona — Chemicals from  | May        | 23   | 14  |
| Thorium — Israeli development may use  | ,      |      |    | order: Let Beker's phosphate trucks  |        |    |      | 'wild' plants   | May        | 16   | 30  |
| thorium to power light-water nuclear   | p.d.o. | 28   | 33 | roll   | June   | 13 | 9    | University of Arkansas — Lignocellulosic  |            |      |     |
| reactors   | Mar    | 20   | 33 | Turbines — Vibration monitor to detect   | 14     | 9  | 22   | starter: Commodities from biomass   | Apr        | 4    | 37  |
| production of threonine N  | Apr    | 11   | 30 | turbine flaws being developed by GE. N   | May    | 9  | 33   | University of British Columbia — Plant tissue culture: comments by Kutney                             | Jan        | 4    | 18  |
| **   |        |      |    |  |        |    |      |   | Jall       | 4    | 10  |
| Tires Armstrong Rubber to use Kevlar fiber                                   |        |      |    | H  |        |    |      | University of California  |            |      |     |
| in passenger tires   | June   | e 6  | 9  | 0  |        |    |      | Ames test: a computer assist for the<br>Ames test   | Ma         | 21   | 14  |
| in passenger tires N<br>Armstrong Rubber will roll out a pas-                |        |      |    |  |        |    |      | Fenske reports pesticides penetrate   |            |      |     |
| senger-car version of Tredloc radial   | Mari   | 28   | 12 | Ultrasonics — How ultrasound 'catalyzes' catalysis.  | Jan    | 18 | 29   | clothes: ACS meeting  | Apr        | 18   | 37  |
| ICI offers nylon for tire production N                                       | Feb    |      | 17 | Ultraviolet — Polysilanes: masks for UV  | Jan    | 10 | 23   | Genetic frost-resistance test may be<br>blocked by environmentalists N                                | Ann        | 25   | 76  |
| Titanium — Dumping: USITC finds titani-<br>um dumping from Japan and U.K N   |        |      |    | lithography  | May    | 30 | 22   | Federal court stops an open-air DNA   |            |      |     |
| um dumping from Japan and U.K N  | Feb    | 1    | 25 | Uniformed Services University of the   |        |    |      | experimentN   | Ma         | y 23 | 40  |
|  |        |      |    |  |        |    |      |   |            |      |     |

| University of Company of Compan                        | Plant tissue culture: comments by Kubo                                       | Jan  | 4     | 18 | Urea   |      |       |    | meeting: Good public works need                               |        |      |     |
|---|--|------|-------|----|--|------|-------|----|---|--------|------|-----|
| Comparison   Com                        | University of Cincinnati — Ordered poly-                                     | Anr  | 11    | 35 | Canada: feasibility study for urea plant in Quebec N                             | Feb  | 1     | 20 | a strong public voice — Other                                 | June   | 13   | 3   |
| Commercial programs   Commercial portures are are are all programs   Commercial portures and programs   Commercial portures are are all programs   Commercial portures   Commercial                         | University of Dayton Research Institute-                                     |      |       |    | Fertilizer shipments post a gain N   | Apr  | 25    | 57 | Illinois hazardous waste site suit                            |        |      |     |
| University of Management and Control                        | "Ordered polymers": ribbon material  | Apr  | 11    | 35 | Reichhold Chemicals puts urea and am-  | Jan  | 11    | 25 | SettledN  | June ' | 13   | 40  |
| Description   Interface   In                        | University of Georgia  | hunn | 20    | 40 | monia operation on the auction   | May  | 2     | 0  | companies for cleanup of Berlin &                             | Ann    |      | 40  |
| The set of the file of the set                         | Squeezing insecticides from oranges:   | June | 20    | 40 | Sharjah ammonia and urea project N   |      |       |    | Missouri cleanup costs: EPA sues                              | Apr    |      |     |
| Charge   Control   Contr                        | fire ants, flies, fleas and weevils suc-                                     |      |       |    | Urea-Formaldehyde — Insulation: CPSC   |      |       |    | over dioxin contaminationN                                    | Feb    | 1    | 42  |
|   | citrus peel  | June | 27    | 20 | entists N  | Mar  | 7     | 40 | (table)   | Jan    | 18   | 32  |
| Convertiged Margined Control (Charles)   Con                        | University of Houston — Chinese taflow<br>tree Coemicals from 'wild' plants  | May  | 16    | 30 | Urethane   |      |       |    |   | .lan   | 18   | 35  |
| Content of Notice   Cont                        | University of Illinois — How ultrasound                                      |      |       |    | Ashland acquiring Goodyear T&R's   | Enh  | 0     | 0  | Incineration see Incineration                                 | 0011   |      | 00  |
| Standy Cross to 18 sources Center   Face   15   15   16   16   16   16   16   16  | 'catalyzes' catalysis: Suslick research                                      | Jan  | 18    | 29 | Oil's lure for urethane makers   | Apr  | 25    | 16 |   | Feb    | 8    | 16  |
| Content of Source (Line Source)   Content of Source)                        | University of Maryland   |      |       |    | Specialty urethanes prices N   |      | 22    | 28 | Nuclear   |        |      |     |
| Cuterter for Advanced Research in Biother all recommendations of the Secretary of the Secretary of the Secretary of the Secretary of Se                      | Shady Grove Life Sciences Center R   | Feb  | 15    | 16 | Urethanes' double-digit surge: Autos   |      |       |    | plant must obey hazardous waste                               |        |      |     |
| Feb   15   16   16   17   16   17   16   17   17  | Center for Advanced Research in Bio-   |      |       |    | and furniture  | Apr  | 11    | 13 | laws  | Apr    | 25   | 22  |
| June 19 1 19 19 19 19 19 19 19 19 19 19 19 1  | ter allies diverse groups  | Feb  | 22    | 16 | foam business to Plastics Manage-  | F-1  | 46    | 40 | clear fuel from Pacific Northwest                             |        |      |     |
| Note Tourise of Participant of Massachusetter — Political Content of M                      | Cholera vaccine: success of genetical-<br>ly engineered vaccine reported N   | Jan  | 25    | 19 | mentH  | 1-90 | 15    | 16 | Occidental will nick up a cleanur tab                         | May    | 2    | 37  |
| University of Places and Places a                      | Kaper's research to develop vaccine to                                       |      |       |    | **   |      |       |    | for "S-Area" dump site in Niagara                             |        |      |     |
| University of Massachusetts — Propospognous wester insearchers lock at use as a Mary 25 50 biometric politic measurement of the study and the linear politic study and the linear poli                      | warfare debate   | Feb  | 15    | 12 | V  |      |       |    | Pesticides see Insecticides — Pesti-                          | Jan    | 18   | 44  |
| University of Maxim — Proportopognam roadsase and a construction material and construction material and a construc                      | University of Massachusetts — Ordered  |      |       | 25 |  |      |       |    | cides   |        |      |     |
| road base and a construction material.  Apr 15 57  Whitewartly of Minimeseds Nosa accurate rights to make program and a contract of the property of the program of the prog                      | University of Miami — Phosphogypsum  | Ahi  | 11    | 30 | Vaccines see Drugs   |      |       |    | Act   |        |      |     |
| University of Enemotics Control and September 1 and September 2 and September                       | wastes: researchers look at use as a   | Anr  | 25    | 52 | Valves — Vogt's 'zero-leakage' check   | Feb  | 1     | 30 | EPA approves Delaware's hazardous                             | lon    |      | 44  |
| Symbolization of the control c                      |  | Apr  | 20    | JE | Vapor Deposition - Chemical vapor de-  |      |       |    |   | Jan    | 4    | 44  |
| drugs engapitalities cales regards to Afficenting report to Afficenting Apr 1 3 5  Weiterest Administration Hospital and many regulate solid wasts in Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5  Mass fills humbridge from Pleam and Mars 2 5                      | Nova acquires rights to market opiate  |      |       |    |  | June | 6     | 34 | ties: setting fines for noncompli-                            |        |      |     |
| Verlamenty of processors of personal processo                      | druge  | Mar  | 14    | 46 | in the international banking rescue  |      |       | 50 | gains   | June   | 13   | 36  |
| University of Presentation - Conference Control of Cont                      | Synthesizing garlic's cutive ingredient:<br>report to ACS, meeting           | Apr  | 18    | 37 | Veterans Administration Hospital — Im-   | June | 20    | 53 | States may regulate solid waste im-                           | Man    | 00   | 40  |
| University of Theorems areas and any of the first between the fi                      | University of Pennsylvania — Plant Sci-                                      |      |       |    | munoimaging for identifying malignant  | home | - 10  | 24 | Suit the action to the word — and vice                        | war    | 28   | 48  |
| University of Present Park Certain Cancel Ca                      | HaasN  | Feb  | 8     | 34 | /iewpoint — Jan 4-3, Jan 11-3, Jan 18-3,   | June | 13    | 34 | versa — Viewpoint   | June   | 20   | 3   |
| Center Processer Vong Competent Services of the Post of the Competent Services of the Competent                       | University of Pittsburgh — CMA contract                                      |      |       |    | Jan 25-3, Feb 1-3, Feb 5-3, Feb 15-3,  |      |       |    | "Joint and several" liability: 'The law                       |        |      |     |
| Frank E. Is new PAD commissioner. No find — Jass, Fassels: "We must recognize a problem exists to a problem exists of the properties of South Fords — Aquatic effects of alleschemical statistics of a                      | cancer N   | Apr  | 4     | 34 | Mar 21-3, Mar 28-3, Apr 4-3, Apr 11-3,   |      |       |    | is a ass' — Viewpoint   | Jan    | 18   | 3   |
| University of Such Dakota — Einheifig at ACS symposium an eliciposative and elicipos                      | University of Rochester — Young, Dr.   | May  | 16    | 68 | Apr 18-3, May 2-3, May 9-3, May 16-3,<br>May 23-3, May 30-3, June 6-3, June 20-3 | him  | 27    | 3  | (table)   | Jan    | 18   | 32  |
| University of Count Datoits — Enhellig at ACS symposium on allelocatify with a control of the count of the co                      | University of Rome - Furone's research-                                      | may  | 10    | 00 | Vietnam Veterans of America — Agent  | our  | 0 21  | 9  | — Correction  | Feb    | 8    | 5   |
| University of South Florids — Agustic effects of allelochemicals studied by University of Souther Maississip — Agustic effects of allelochemicals studied by University of Southern Maississip — Agustic effects of allelochemicals in May 2 30   University of Southern Maississip — Agustic effects of allelochemicals in May 2 30   University of Southern Maississip — Agustic effects of allelochemicals in May 2 30   University of Vaxas    **More of May 1    **More of March 1                      | fund cisis; Fasells: "We must recog-<br>nize a problem exists"               | June | e 20  | 20 | Orange/Vietnam Experience study from<br>CDC: comments                            | Mai  | 28    | 14 | Dyne case   | Jan    | 18   | 35  |
| University of South Fordis — Agustic effects of allistochemicals studied by wan filer Live and Enchanced files and Enchanced files and university of Universit                      | University of South Dakota — Einhellig at                                    |      |       |    |  | 1416 |       |    | Heagan's budget calls for a Super-                            | Feb    | 1    | 42  |
| effects of allelochemicals studied by May 2 5 10 May 2 2 50 May 1 5 46 May 2 5 50 May 2 2 50 May 2 2 50 May 2 2 50 May 2 5 50 May 2                       | University of South Florida — Aquatic  | May  | / 2   | 28 |  |      |       |    | Florio pushes a \$9 billion Superfund                         | 1 00   | •    | 46  |
| University of Yease Field-flow fractionation, a form of chromatography: AAS symposium unit title immunoling of identifying malignant fumors: Navas to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration (Isbe), esperance in Research Program: New ways to bring about cost-effective seguration of the Research Resear                      | effects of allelochemicals studied by  | 1400 |       | 00 | ing capacity at Avon Lake, O R   | Jan  | 11    | 16 | Superfund's costs N   | Feb    | 15   | 48  |
| Aguatic effects of allelochemicals studied by van Aller  University of Texas  Feb 22 8  Vinyl Chioride Fried-flow fried coloration, a form of chromatography, AAS symposium materials and the coloration of the co                      |  | May  | / 2   | 30 | Vinyl films prices<br>Vinyl Acetate — Prices N May 23-25. N                      | Jun  | e 13  | 24 | Republicans offer their own Super-                            |        |      |     |
| University of Texas Field-flow fractionation, a form of chro- stitute. Immunomaging for identify- ing malignant tumors. N Pacing's growing role in distillation Separation Research Program. New ways to bring about cost-effective separation Research Program. New ways to bring about cost-effective separation Research Program. New ways to bring about cost-effective separation (1982) separati                      | Aquatic effects of allelochemicals   | Man  | . 2   | 20 | Vinyl-Acetate-Fthylene Emulsions -   |      |       | 28 | fund bill: Lent version N<br>Congressional panel hears Super- | Mar    | 7    | 40  |
| Framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store, framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store over the framingham, Mass, hassle over VC in a railyard: an ethic Acas in "store over Vindential", and the propose of Vindential Vindenti                      |  | IVI  | 1 2   | 30 |  | PAE  | 22    | 26 | fund testimony N  |        |      |     |
| matography. AAAS symposium M. D. Anderson Hospital and Tumor Institute. Immunormaging for identify.  May 16 44  Packing sprowing role in distillation (diagram) Separation (Rasearch Program. New separation (table) University of Ulain — Packing more information into chips: light-sensitive may be separation (table) University of Ulain — Packing more information into chips: light-sensitive may be separation (table) University of Ulain — Packing more information into chips: light-sensitive may be separation (table) University of Ulain — Packing more information into chips: light-sensitive may be separation (table) University of Virginia — Ordered molymers research  University of Virginia — Ordered molymers research  University of Wisconain  University of Wisconain  University of Wisconain  Paper 18 52  Weste Disposal  Apr 18 23  Weste Disposal  Apr 18 23  Weste Disposal  Apr 18 25  Wester Disposal and control or disposal prace of the part of the politic may be a claim of the program of                       | University of Texas  |      |       |    | Vinyl Chloride   |      |       |    | An uphill battle for the Superfund                            | Mar    | 21   | 16  |
| stitute: Immunoimaging for identify: Immunoimaging for imm                      | matography: AAAS symposium   | Jun  | e 6   | 34 | railyard: are tank care in "storage" or  |      |       |    | program N   | Apr    | 18   | 52  |
| Research Program: Naw ways to bring about constelled the separation flabel.  Separation Research Program: Naw ways to bring about cost-effective separation (table).  University of Utah — Packing more information into chips: light-sensitive manurate separation (table).  University of Virginia — Ordered polymers research spread of the program of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  University of Virginia — Ordered polymers research spread of the separation (table).  Feb  | M.D. Anderson Hospital and Tumor In-<br>stitute: Immunoimaging for identify- |      |       |    | interstate commerce? (map)   |      |       |    | Clamor for change in Superfund's tax base (chart)             | Anr    | 25   | 12  |
| (diagram) Separation Research Program New ways to bring about cost-effective ways to bring be bottom line. Lurie A. Apr 18 23  June 20  Waste Disposal Apr 21  Waste Disposal Apr 22  Waste Disposal Apr 23  Way 16 58  Way 16 58  Way 16 58  Waste exchanges: Why not exchange ways to help be bottom line. Lurie A. By 16 58  Way 16 58  Waste exchanges. An underutilized way to help be bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help be bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help be bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized way to help bottom line. Lurie A. By 16 58  Waste exchanges. An underutilized ways to help bottom line. Lurie A                      | ing malignant tumors N   | Jun  | e 13  | 34 | Vinvl Chloride see also Polyvinyl Chloride                                       | 1410 |       | 00 | House gets a compromise Super-                                |        |      |     |
| Separation Research Program: New ways to bring about cost-effective separation (lable) separation (lable                      | (diagram)  | Jun  | e 13  | 18 | 'high-tech styrene' (charts)   | Jur  | e 6   | 20 | Superfund extension moves for-                                | мау    | 16   | 68  |
| separation (table) University of Ulain— Packing more information into chips: light-sensitive manufacture manufactu                      | Separation Research Program: New   |      |       |    | Virginia Commonwealth University — Fus-  |      |       |    | wardN   | May    | 30   | 40  |
| University of Virginia — Ordered polymers research  Conferences: Making a university industry match dustry match Outpressity of Virginia — Ordered polymers research  Conferences: Making a university industry match Outpressity of Virginia — Ordered polymers research  Conferences: Making a university industry match Outpressity of Virginia — Ordered polymers research  Viniversity of Virginia — Ordered polymers research  Conferences: Making a university industry match Outpressity of Virginia — Ordered polymers research  Viniversity of Virginia — Ordered polymers research  In the conferences: Making a university industry match Outpressity of Virginia — Ordered polymers research  Viniversity of Virginia — Ordered polymers research  In the conferences: Making a university industry match Outpressity of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Calley of Virginia — Ordered polymers research  New Stephalor of Virginia — Ordered research                        | separation (table)   | Ma   | y 16  | 34 | agreement signed with Bio-Technical  |      |       |    | McKee, gets the largest Super-                                |        |      |     |
| University of Wisconsin Conferences: Making a university/industry match Ontererces: Making a university/industry match Ontercences: Making a university/industry have been dead on the calculation of the calc                      | University of Utah — Packing more infor-                                     |      |       |    | Resources  | Fei  | 8     | 34 | fund contractN  | June   | 13   | 40  |
| University of Wisconsin Conferences: Making a university/industry match Ontererces: Making a university/industry match Ontercences: Making a university/industry have been dead on the calculation of the calc                      | terial N   | Feb  | 29    | 28 | manager of Uniroyal's agricultural   |      |       |    |   |        |      |     |
| University of Wisconsin Conferences: Making a university/in- dustry match Synchrotron radiation.  Apr 18 23  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous meeting.  Apr 18 37  May 30 34  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous waste.  May 30 34  May 30 34  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous waste.  May 30 34  Clean Siles: A sight for sore eyes— Viewpoint action on derelicit dumps.  Viewpoint of Environment": High marks for a clearup report lings (chart)  Ornanium producers, far-off silver lings (chart)  For uranium producers, far-off silver lings (chart)  Apr 11 12  Apr 1                      | University of Virginia — Ordered poly-                                       | Anı  | 11    | 35 | chemicals: An agchem chief with deep   |      | 29    | 20 | damage rules N  | June   | 20   | 74  |
| Conferences: Making a universitylin-dustry match Synchrotron radiation  University of Wisconain-Madison Biotechnology center planned. N Polymerization catalyst: West at ACS needing. Peace a stir. Settles suit with Charles River Breeding Laboratories over sale of genetically impure mice. University of Wyoming — Western Research Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE).  Jan 4 15  Uranium  For uranium producers, far-off silver Finings (chart) Feb 1 20  Apr 11 12  Uranium For uranium producers, far-off silver Finings (chart) Feb 1 48  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous way to help the bottom line. Laurie A. Rich. The major chemical waste exchanges: Why not exchange waystes for profits? — Western Research Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE).  Jan 4 15  Uranium For uranium producers, far-off silver Finings (chart) Feb 1 48  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous waste.  Lean Siles, Inc. to be formed to organize a voluntary cleanup for Superfund sites.  Clean Siles: A sight for sore eyes — Viewpoint.  Apr 11 12  Feb 2 5  Uranium For uranium producers, far-off silver Finings (chart) Feb 1 48  Waste Disposal Argonne National Lab's instrument, called Shade, disposes of hazardous way to help the bottom line. Laurie A. Rich. The major chemical waste exchanges: Why not exchange ways to help the bottom line. Laurie A. Rich. Waste Exchanges.  May 16 58  Waste Exchanges May 16 58  June 20  June 20  The major chemical waste exchanges in underutilized way to help the bottom line. Laurie A. Rich. The major chemical waste exchanges with not exchange wastes for profits?  June 20  The major chemical waste exchanges in underutilized way to help the bottom line. Laurie A. Rich. The major chemical waste exchanges wastes for profits?  The major chemical waste exchanges wastes for profits?  The major chemical waste exchanges wi                      |  |      |       | 00 |  |      |       | 20 | fund  | June   | 27   | 12  |
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| University of Wisconain-Madison Biotechnology center planned N Polymerization catalyst: West at ACS meeting N Polymerization catalyst: West at ACS molymerization catalyst: West at ACS molymerization catalyst: West at ACS meeting N Polymerization catalyst: West at ACS molymerization catalyst: West a                      | dustry match   |      |       | 20 | W  |      |       |    | Waste exchanges. An underutilized                             | 1 00   | 10   | 40  |
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| Settles suit with Charles River Breeding Laboratories over sale of genetically impure mice N University of Wyoming — Western Research Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE)  Jan 4 15  Original Resource Energy Extraction (TREE)  Jan 4 15  Original Resource Energy Extraction (TREE)  Jan 5 11  Conservation Foundation's "State of the Environment": High marks for a collean proport  Environment Resource Scarles and pole and the proposal of the Environment Resource  Note Ridge develops a U <sub>J</sub> O <sub>2</sub> -recovery process  Note California: A challenge in court to state waste control.  May 16 22  Waste Exchanges  Waste exchanges. An underutilized waste exchanges. An underutilized wayto help the bottom line. Laurie A. Rich.  The major chemical waste exchanges (table).  May 16 58  Waste Exchanges  Waste exchanges. An underutilized waste exchanges. An underutilized wayto help the bottom line. Laurie A. Rich.  The major chemical waste exchanges wastes for profits?  The major chemical waste exchanges wastes for profits?  Waste Exchanges  Waste exchanges.  Not promit in the bottom line. Laurie.  Rich.  The major chemical waste or changes (table).  Not promit in the bottom line. Laurie.  Not promit in the summary for a cleanup report.  Feb 2 2  So 50  Feb 2 2  | Polysilanes: Reactive silicon polymers                                       |      |       | 3/ | wasteR   | Fel  | 8 0   | 16 | wastes for profits? — Viewpoint                               | May    | 16   | 3   |
| Laboratories over sale of genetically impure mice N N University of Wyoming — Western Research Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE) — Jan 4 15  Uranium For uranium producers, far-off silver linings (chart) — Apr 11 12  Forecast: An upbeat forecast for uranium producers, far-off silver linings (chart) — Apr 11 12  Forecast: An upbeat forecast for uranium producers in the first operation of the Environment': High marks for a cleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment': High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup report — State of the Environment's High marks for a scleanup re                      | cause a stir   | Ma   | y 30  | 22 | Clean Sites, Inc. to be formed to or-  |      |       |    | vices could strengthen both firms                             |        |      |     |
| University of Wyoming — Western Research Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE).  Jan 4 15  Uranium  For uranium producers, far-off silver linings (chart)  For east: An upbeat forecast for uranium entities and the expension of extraction of derelict dumps.  Jan 25 24  Jan 26 25  Jan 27 24  Jan 27 24  Jan 28 38  Jan 18 38  Jan                       | Laboratories over sale of genetically  |      |       |    | fund sites   | Ma   | y 16  | 22 | (chart)   | June   | 20   | 17  |
| search Institute's new process of burning coal to extract oil, Total Resource Energy Extraction (TREE)  Jan 4 15  Conservation Foundation's "State of the Environment": High marks for a cleanup report  For uranium producers, far-off silver linings (chart)  For crasst: An upbeat forecast for uranium exchange method of extracting uranium from phosphoric acid No Cak Ridge develops a U <sub>D</sub> -trecovery process  Nouncess             | impure mice  | Ma   | ay 30 | 34 | Clean Sites: A sight for sore eyes —   | Ju   | ne 6  | 3  |   |        |      |     |
| Energy Extraction (TREE)  Jan 4 15  Conservation Foundation's "State of the Environment": High marks for a cleanup report.  For uranium producers, far-off silver linings (chart)  Apr 11 12  Conservation Foundation's "State of the Environment": High marks for a cleanup report.  The major chemical waste exchanges (table).  The major chemical vaste exchanges (table).  The major chemical                       | search Institute's new process of burn-                                      |      |       |    | A pragmatic partnership geared for   |      |       |    |   |        |      |     |
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| For uranium producers, far-off silver linings (chart)  Apr 11 12  Forecast: An upbeat forecast for uranium on North Call forecast for uranium on North Call forecast for uranium from phosphoric acid North North Call forecast for uranium from phosphoric acid North North Call forecast for uranium from phosphoric acid North No                      |  | -    |       |    | the Environment": High marks for a   |      | - 00  | 40 | The major chemical waste ex-                                  | May    | 16   | 58  |
| linings (chart)  Apr 11 12 ticss. No. Feb 22 50 — Viewpoint. May 16 3 Feb 23 50 — Viewpoint. May 16 3 Feb 23 50 — Viewpoint. May 16 3 Feb 23 50 — Viewpoint. May 16 3 Feb 24 50 — Viewpoint. May 16 3 Feb 25 50 — Viewpoint. M                      | For uranium producers, far-off silver  |      |       |    |  |      | 10 20 | 16 | Why not exchange wastes for profits?                          |        |      |     |
| nium rom phosphoric acid Now  | linings (chart)  | An   | or 11 | 12 | ticesN   | Fe   | b 22  | 50 | — Viewpoint   | May    | 16   | 3   |
| lon exchange method of extracting uranium from phosphoric acid. N Jan 18 38 Oak Ridge develops a U <sub>2</sub> D <sub>2</sub> -recovery process. N UNC Resources court settlement: Standard Oil of Calif. gets stake in the uranium business, General Atomic will assume UNC's obligation to repay uranium to a utility company . N Utilities receive new uranium-enrichment contracts. N Feb 1 42 Uranium Hexafluoride — For uranium producers, far-off silver linings (charf). Apr 11 12  Gardinier wins a gyssum dump: Florida compromise plan approves a second site.  June 20 18  Lazardous chemicals Chem-Dyne case: Supreme Court will determine whether companies can skirt a court order for hazardous waste cleanup by filing for action and erelict dumps.  Viewpoint Lot be formed to organize a voluntary cleanup for super fund sites Clean Sites, Inc. to be formed to organize a voluntary cleanup for super fund sites.  Lot a site control to state waste control.  Viewpoint A pragmatic partnership geared for action and erelict dumps.  Viewpoint A pragmatic partnership geared for action and erelict dumps.  Viewpoint State of the Environment': High marks for a cleanup report Light marks for a cleanup report June 20 16  June 10 12  June 13 14  Saltifornia: A challenge in court to state waste control.  Viewpoint A pragmatic partnership geared for action and erelict dumps.  Viewpoint State of the Environment': High marks for a cleanup report June 20 16  June 10 20 20 20 20 20 20 20 20 20 20 20 20 20   | nium   | Ja   | n 25  | 24 | High Court N   | Ju   | ne 6  | 40 | Waste Treatment   |        |      |     |
| Calk Ridge develops a U <sub>2</sub> D <sub>7</sub> -recovery process N June 6 25 UNC Resources court settlement: Standard Oil of Calif. gets stake in the uranium business, General Atomic will assume UNC's obligation to repay uranium to a utility company N Utilities receive new uranium-enrichment contracts N Feb 1 42 Uranium Hexafluoride — For uranium producers, faur off silver linings (chart) Apr 11 12 Site N Lazardous chemicals Chem-Dyne case: Supreme Court will determine whether companies can skirt a court order for hazardous waste cleanup by filing for action and erelicted dumps N Chlorinated hydrocarbons listed as wastes by EPA N Feb 1 42 Fernandez, Louis at CMA annual meet-  | Ion exchange method of extracting ura  |      |       | 38 | Gardinier wins a gypsum dump: Florida  |      |       |    | California: A challenge in court to state                     | lum    | 0 12 | 1.4 |
| UNC Resources court settlement: Stand- ard Oil of Calif Legets stake in the uranium business, General Atomic will assume UNC's obligation to re- pay uranium to a utility company . N Utilities receive new uranium-enrich- ment contracts . N Uranium Hexafluoride — For uranium pro- ducers, far-off silver finings (charf) . Apr 11 12  Chem-Dyne case: Supreme Court will determine whether companies can skirt a court order for hazard- ocus waste cleanup by filing for bankruptcy N Chlorinated hydrocarbons listed as wastes by EPA . N Uranium Hexafluoride — For uranium pro- ducers, far-off silver finings (charf) . Apr 11 12  May 16 22  Clean Siltes; A sight for sore eyes — Viewpoint . A pragmatic partnership geared for action on derelict dumps   | Oak Ridge develops a U <sub>2</sub> O <sub>4</sub> -recovery                 | ,    |       |    | site   | Ju   | ne 20 | 18 | Clean Sites, Inc. to be formed to or-                         | Juli   | 0 13 | 149 |
| ard Oil of Calif, gets stake in the uranium business, General Atomic will assume UNC's obligation to re- pay uranium to a utility company N Utilities receive new uranium-enrich- ment contracts N Uranium Hexafluoride — For uranium pro- ducers, far-off silver inings (char) Apr 11 12 will determine whether companies can skirt a court order for hazard- ous waste cleanup by filing for bankruptcy. N Chlorinated hydrocarbons listed as wastes by EPA N Feb 15 48 EPA adds more waste sites to clean- up list N Mar 21 64  Viewpoint V Apr garmatic partnership geared for action on derelict dumps V action on derelic dumps V act                      | process  | l Ju | ine 6 | 25 | Chem-Dyne case: Supreme Court  |      |       |    | ganize a voluntary cleanup for Super-                         | Man    | 16   | 22  |
| uranium business; General Atomic can skirt a court order for hazard- will assume UNIC sobligation to re- pay uranium to a utility company N Utilities receive new uranium-enrich- ment contracts N Uranium Hexafluoride — For uranium pro- ducers, fa-roff silver flinings (charr) Apr 11 12  Apr 11 12  Apr 21 64  Viewpoint 4 58 Apr agmatic partnership geared for action on derelict dumps June 6 10  Conservation Foundation's "State of the Environment": High marks for a cleanup report June 20 16  June 20 3  June 6 3  Apr 30 4 58  EPA adds more waste sites to clean- up list N Mar 14 58  Apr 30 4 58  EPA adds more waste sites to clean- up list N Mar 21 64  Fernandez, Louis at CMA annual meet-   | ard Oil of Calif. gets stake in the  | 9    |       |    | will determine whether companies   |      |       |    | Clean Sites: A sight for sore eyes —                          |        |      |     |
| pay uranium to a utility company N June 6 9 bankruptcy. N Mar 14 58 action on derelict dumps June 6 10  Utilities receive new uranium-enrich- ment contracts N Feb 1 42 wastes by EPA N Feb 15 48  Uranium Hexafluoride — For uranium pro- ducers, far-off silver linings (char) Apr 11 12  Apr 11 12  Diankruptcy. N Mar 14 58 action on derelict dumps June 6 10  Conservation Foundation's "State of the Environment": High marks for a cleanup report June 20 16  Fernandez, Louis at CMA annual meet-  | uranium business; General Atomic<br>will assume UNC's obligation to re       |      |       |    |  |      |       |    | A pragmatic partnership geared for                            | Jun    | e 6  | 3   |
| ment contracts N Feb 1 42 wastes by EPA N Feb 15 48 the Environment": High marks for a Uranium Hexafluoride — For uranium pro- ducers, far-off silver linings (chart) Apr 11 12 up list   | pay uranium to a utility company N   | l Ju | ine 6 | 9  | bankruptcyN  | M    | ar 14 | 58 | action on derelict dumps                                      | Jun    | e 6  | 10  |
| ducers, far-off silver linings (chart) Apr 11 12 up list  | ment contracts   | F    | eb 1  | 42 | wastes by EPA  | Fe   | b 15  | 48 | the Environment": High marks for a                            |        |      |     |
| Unions introduced in the property of the prope                      | Uranium Hexafluoride — For uranium pro                                       | -    |       |    | EPA adds more waste sites to clean   |      |       |    | cleanup report  | Jun    | e 20 | 16  |
|   | Uranium Oxide — Prices   |      |       |    | Fernandez, Louis at CMA annua  | M    | 1 21  | 04 | ing: Good public works need a strong                          |        |      |     |

| public voice — Other views  | June 1  | 13 | 3  | vices venture, Environmental Ser-<br>vices Group: first step in a nation-<br>wide network of waste treatment |              |    |          | Aceto — Acetic acid prices N Acna — Purchased by Inmont                        | June 2<br>Jan | 4        | 60<br>17 |
|---|---------|----|----|--|--------------|----|----------|--|---------------|----------|----------|
| trial waste streamsN  | May     | 2  | 37 | facilities   | June 1       | 3  | 11       | Trial involving cancer deaths of work-<br>ers: trial against executives is re- |               |          |          |
| Massachusetts gives green light to<br>waste plants: IT facility to be built . N | June    | 6  | 9  | facilities<br>GE develops "continuous metal-extrac-<br>tion process"N  | June 2       | 7  | 96       | scheduled  | Feb           | 8        | 17       |
| Microorganisms that eat toxic chemi-  | Mar 2   |    | 33 | tion process"  |              |    |          | sentences  | Apr 2         | 5        | 25       |
| cals N<br>Water: Waste water see Water Treat-                                   | IVIUI I |    | 55 | waste streamsN   | May          | 2  | 37       | loads its plastic specialties  | Apr 1         | 8        | 12       |
| ment  |         |    |    | Olin expands sodium chlorite registra-<br>tionR  | Apr 2        | 25 | 22       | Adco Products — Nalco acquires 20% equity N Mar 21-9,                          | Mar 2         | 98       | 10       |
| Waste Utilization BioTechnica International formed U.K.                         |         |    |    | Treating wastewater by polymerizing  |              |    |          | Advanced Genetic Sciences - r-DNA  | IVIOLI Z      |          | 10       |
| affiliate to develop products and   |         |    |    | pollutants: combination of hydrogen<br>peroxide and the enzyme horse-  |              |    |          | field testing: More oil on the r-DNA<br>field-testing flames                   | June 1        | 13       | 14       |
| technologies for use in natural gas<br>production from solid waste R            | Mar :   | 28 | 19 | radish peroxidase  | May<br>May 1 | 2  | 37<br>30 | Advanced Genetics Research Institute —<br>Charter member of the Association of |               |          |          |
| Commodities from biomass: where   |         |    |    | Weather - The recent freeze takes its  |              |    |          | Biotechnology Companies (table)  | Jan 2         | 25       | 13       |
| we're headed  | Apr     | 4  | 36 | toll   | Jan 1        | 11 | 11       | Aerojet — Carousel exposing materials to the rigors of space                   | June 1        | 13       | 34       |
| product safety  | Jan     | 25 | 80 | ing technology from Cosmos Minerals . N<br>Western Research Institute — Burning                              | May 3        | 30 | 34       | Aetna Life & Casualty — Aspestos fund  | Apr 2         |          | 18       |
| sure in landfill gas  | June    | 20 | 28 | coal to extract oil: new process, Total  |              |    |          | (table)<br>African Selection Trust — Soda ash:                                 | Apr 4         | 23       | 10       |
| Phosphogypsum wastes: researchers<br>look at ways for use as a road base        |         |    |    | Resource Energy Extaction (TREE)   | Jan          | 4  | 15       | Who'll win the soda ash prize in Africa?                                       | Apr           | 11       | 18       |
| and a construction material   | Apr     | 25 | 52 | Wood Preservatives: EPA action expected  |              |    |          | Agouron Institute — How genetic engin-<br>eers will customize proteins         |               |          |          |
| joint venture to market refuse-fired  | Cab     |    | 40 | soonN  | June :       | 27 | 102      | Agri-Biotech — Celanese seed deal with   | Mar :         |          | 79       |
| power plants R Thermoelectric generators: Winning                               | Feb     | 8  | 16 | Solvent pulping: How solvent pulping gets more from the tree   | Jan          | 4  | 26       | Vencon fails to germinate N<br>Agrico Chemical — Florida readies for           | Apr :         | 25       | 11       |
| more watts from waste heat (dia-<br>gram)                                       | June    | 6  | 26 | Woodpeckers find a treated wood un-<br>palatableN  | Feb          | 22 | 32       | dry sulfur: state permit would save Agri-                                      | Feb :         | 22       | 12       |
| Uranium Pechiney recovering minerals  |         |    |    | paratable  | 1 60         |    | U.L.     | Grace buys phosphate rock reserves in  |               | 22       |          |
| from clay-bearing ores N<br>Waste exchanges. An underutilized                   | June    | 13 | 34 | V  |              |    |          | Florida  | Feb           | 1        | 17       |
| way to help the bottom line. Laurie A.<br>Rich                                  | May     | 16 | 56 | X  |              |    |          | ing<br>Phosphate mine in Florida, Payne  | Feb           | 22       | 10       |
| The major chemical waste ex-  |         |    |    |  |              |    |          | Creek, to reopen   | Mar           | 28       | 19       |
| changes (table)   | May     | 16 | 58 | X-Rays Lead acrylic polymer: A lower cost  |              |    |          | Agrigenetics — Funds Australian re-<br>search on genetic engineering of        |               |          |          |
| wastes for profits? — Viewpoint   | May     | 16 | 3  | shield from radiation  | Apr          | 25 | 69       | corn N<br>Agway — Dolge comments on Eastman's                                  | Apr           | 25       | 30       |
| Water Pollution   |         |    |    | terials with a synchrotron   | Apr          | 18 | 23       | Air Canada — Fire-blocking seat covers .                                       |               | 18       | 11       |
| Biological testing for toxics in water<br>backed by EPA                         | Mar     | 21 | 84 | Xylene   |              |    |          | L'Air Liquide — Industrial gases heat up                                       | Feb           | 15       | 14       |
| California: Á challenge in court to state waste control                         | June    |    | 14 | Octane boosting: BTX vs oxygenates —<br>battle over lead substitutes (chart)                                 | Mar          | 28 | 27       | in Europe  | Mar           | 21       | 66       |
| Clean Water Act   | June    | 13 | 14 | p-Xylene capacity boost at Exxon Chem-   | Teres        | 20 | 21       | minority interest in UTI Instruments R   | Apr           | 11       | 23       |
| Florida leads the way in regulating<br>toxics: new rules set levels for 137     |         |    |    | ical Americas, Baytown, Tex. facil-<br>ity   | Mar          | 7  | 16       | Air Products Ireland formed to market<br>industrial gases to customers near    |               |          |          |
| chemicals in drinking water  A bundle of bills for water pollution              | Apr     | 4  | 14 | ity  | Mar          | 14 | 34       | Dublin   | Feb           | 22       | 18       |
| controlN  | May     | 2  | 44 | frontN   | Jan          | 4  | 20       | fuse-fired power   | Feb           | 8        | 16       |
| Amendments would loosen clean water rulesN                                      | May     | 23 | 40 |  |              |    |          | Atmospheric gases: Sales are up, but margins are thin for air gases            | Feb           | 22       | 24       |
| EPA's toxic discharge rules upheld by High Court                                | June    | 6  | 40 | Υ  |              |    |          | Cogeneration plant to be built at New Orleans complex                          | Jan           | 11       | 16       |
| Amendments proposed N<br>Dow's wastewater-treatment plant on                    | June    |    | 40 |  |              |    |          | Cogenerator/utility fuss over avoided  | Feb           | 8        | 12       |
| the Tittabawassee River: Michigan's   |         |    |    | Yale University  |              |    |          | costs Expansions at Calvert City, Ky. for ace-                                 |               |          |          |
| DNR 'asking the impossible' in water purityN                                    | Арг     | 18 | 9  | "Asymmetric" catalysts: AAAS sympo-<br>sium  | June         |    | 34       | tic acid and PVAR<br>Hydrogen prices N Jan 4-20,N                              | Mar<br>Feb    | 1        | 19<br>25 |
| Dow wins a tough water permit<br>EPA proposes standards for reducing            | Apr     | 25 | 18 | Robots that will sniff chemicals Yeast — Microorganisms that eat toxic                                       | Mar          | 14 | 29       | Industrial gases prices  | Apr           | 18       | 20       |
| water pollution from plastics molding<br>and forming plants N                   | Feb     | 22 | 50 | chemicalsN   | Mar          | 28 | 33       | finesse (tables)   | Feb           | 15<br>25 | 34<br>22 |
| Groundwater: EPA sets ground rules  |         |    |    | Yugoslavia   | Mar          | 01 | 20       | Mutascreen system, a computer assist   |               |          |          |
| for groundwater   | Jan     |    | 14 | Petrochemical production is slated N<br>Phosphate deposits N   | Jan          |    | 57       | for the Ames test, considered Nitrogen gas plant at Austin, Tex.               | Mar           |          | 14       |
| elusive N<br>Superfund see <b>Waste Disposal</b>                                | May     | 2  | 20 |  |              |    |          | planned  | Feb           | 15       | 16       |
| TOXICS. ACTIVISTS GEAT UP FOR A PUSH OF   |         |    |    | Z  |              |    |          | givcolamine complex expansion H  | Apr           | 4        | 16       |
| toxics  | Feb     | 15 | 48 | _  |              |    |          | Paper industry recovery: PVA sales for<br>special paper products increase      | Mar           | 21       | 10       |
| Pont for mercury contamination of<br>South River and South Fork of the          |         |    |    | Zinc — Prices N  | Mar          | 28 | 42       | Plastics' push for chemical packaging:<br>fluorination processes for barrier   |               |          |          |
| Shenandoah River R  | Apr     | 11 | 23 | Zinc — Prices  |              |    |          | market   | Mar           | 14       | 50       |
| Water Supply  |         |    |    | manufacturing facility at Hillsboro, III R   |              | 11 | 23       | Polymer spray-dry powders technology license from Wacker-Chemie R              | Mar           |          | 16<br>15 |
| California: A challenge in court to state<br>waste control                      | June    | 13 | 14 | Mc   | right        |    |          | PVA expansion  | Jan           |          |          |
| Chemical water. Winners and losers in<br>the coming crisis (map, tables,        |         |    |    | Company Inday  |              |    |          | PVC makers are smiling again (chart)   | Mar           | 14       | 24<br>24 |
| Charts)   | Feb     | 22 | 34 | Company Index  |              |    |          | Stearns Catalytic World: New direc-<br>tions for engineering companies         | Apr           | 4        | 30       |
| regulating toxics: new rules set<br>levels for 137 chemicals in drink-          |         |    |    | -  |              |    |          | Vinyl acetate emulsions and copoly-<br>mers prices N Feb 22-28, N              |               | e 13     |          |
| ing water   | Apr     | 4  | 14 | A  |              |    |          | Air Products Europe — Argon/hydrogen plant to be built at ICI's Billingham     | Julia         | 9 13     | 24       |
| Groundwater: EPA sets ground rules<br>for groundwater                           | Jan     | 11 | 14 |  |              |    |          | plant to be built at ICI's Billingham complex                                  | Apr           | 18       | 28       |
| Take part in water planning — View-<br>point                                    | Feb     | 22 | 3  | AAC Holdings — Allied's liquid fertilizers   | Jan          | 4  | 9        | Industrial gases heat up in Europe<br>Air Products Ireland — Formed to market  | Mar           | 21       | 6€       |
|   |         |    | •  | business to be boughtN AC Biotechnics — Donating laboratory  | oan          | 7  |          | industrial gases to customers near   |               | 22       | 18       |
| Water Treatment Betz suing Petrolite and four of Petro-                         |         |    |    | fermentation systems to six colleges and universities N  | June         |    | 25       | Dublin R Airco — Argon shortage tightens N                                     | Mar           | 28       |          |
| lite's salesmen   | Feb     | 1  | 13 | Nonstop ethanol from grain   | May          | 20 | 17       | Atmospheric gases: Sales are up, but margins are thin for air gases            | Feb           | 22       | 24       |
| to make complete line of its inor-<br>ganic and organic specialty chemi-        |         |    |    | ash prize in Africa? (map)   | Apr          | 11 | 18       | CO <sub>2</sub> as a grain furnigant Plugging carbon dioxide as EDB sub-       | Apr           | 4        | 14       |
| cals  | Apr     | 11 | 23 | AFAB Plastics — Synthetics for restoring historic facades  | Apr          |    | 54       | stitute N  |               | 22       | 9        |
| Calgon takes an acid-free test: pHree-<br>guard product billed as revolutionary |         |    |    | AGA — Industrial gases heat up in Europe .<br>A-M International — Illinois hazardous                         | Mar          | 21 | 66       | Akin, Gump, Strauss, Hauer & Feld — A<br>clearinghouse for natural gas: Morgan |               |          |          |
| draws competitors' scorn  | Mar     |    | 11 | waste site suit still pending N  | June         | 13 | 40       | Stanley with Transco Energy and Akin,<br>Gump, Strauss, Hauer & Feld plans to  |               |          |          |
| Chemed: An independent Chemed hits the acquisition trail                        | June    |    | 23 | Abbott Laboratories — Medical diagnos-<br>tics. A red-hot market for chemicals<br>and hardware (table)       | Feb          | 20 | 30       | Gump, Strauss, Hauer & Feld plans to<br>open the U.S. Natural Gas Clearing-    | hor           | ne 27    | 7 9      |
| Clean Water Act see Water Pollution   | Juile   |    | 20 | Sales and earnings; first-quarter N  | Apr          | 18 | 9        | Akzo — Acquires Lanchem which will   |               | -        |          |
| Dow's wastewater-treatment plant on<br>the Tittabawassee River: Michigan's      |         |    |    | Time-release herbicides: mycoherbi-<br>cides — fungi that are used as bio-                                   |              |    |          | operate as a subsidiary of Akzo Coat-<br>ings America                          | Feb           |          |          |
| DNR 'asking the impossible' in water  | Apr     |    | 9  | logical herbicides<br>Abonas del Noroeste — Empresa Nacio-   | May          | 23 | 32       | Correction   | Apr           |          |          |
| purity N Dow wins a tough water permit Du Pont's wastewater-treatment ser-      | Apr     |    | 18 | nal de Fertilizantes expected to take remaining 50% N  | Apr          | 25 | 25       | technology from Asahi N<br>Sales and earnings 1983 N                           | Fet           | p 22     | 2 20     |
| 20 LOUIS Master Mater Meaning 11 261.   |         |    |    | Terrianing 50 %  | - April      | 20 | 20       | Salos and outlings 1900  | rendi         | 2.6      | -        |

| Akzo Coatings America — Lanchem, acquired by Akzo, will operate as a sub-         | Fab            |      | 0        | Animal feed supplement, Avoid desp-<br>ing cows make more milk              | Apr 1           | 8 11          | Aquanautics — Fish-feeding stimulant:<br>protein-based chemical coating for       | l.me        | 40       | 47       |
|---|----------------|------|----------|---|-----------------|---------------|---|-------------|----------|----------|
| sidiary N — Correction  | Feb<br>Apr 2   | 1    | 9        | Cross-linking know-how reported by<br>Ley at ACS meeting N                  | Apr 1           | B 37          | bass lures  | June '      | 13       | 17       |
| Akzo Consumer Products — Merged with  | . 4.           |      |          | EPA R&D: chemical majors join push  |                 |               | search marine opportunities N   | May 3       |          | 34       |
| Shell's Temana International unit N   | May 2          | 23   | 18       | for more funding N Formica Brand Products Group and                         | Apr 1           | 1 58          | Arab Potash Co. — Potash production<br>Architectural Restoration Techniques —     | Mar         | 14       | 40       |
| Alabama River Pulp — HO Process so-<br>dium chlorate plant onstream R             | June 2         | 7    | 15       | trademark up for sale   | May 1           | 6 16          | Synthetics for restoring historic facades.  | Apr :       | 25       | 54       |
| Alberta Gas Chemicals — Petralgas see   | Julie Z        |      | 13       | Herbicides follow the current trend to                                      |                 |               | Arco Chemical — Acid-free approaches<br>to treating cooling water; comments       |             |          |          |
| under name  |                |      |          | low-till farming: the boom in post-<br>emergent herbicides (table)          | May             | 9 12          | on Calgon's pHreeguard  | Mar         | 7        | 11       |
| Alberta Natural Gas — Angus Chemi-  |                |      |          | Stabilizers and antioxidants prices N                                       | June            | 6 35          | Cosden acquiring polypropylene businessN  | Apr         | 4        | 9        |
| cal see under name<br>Alberto-Culver — Hair-care mousses: a                       |                |      |          | Sulfuric acid plant at Warners, N.J. to get new cooling facilities R        | Feb             | 1 17          | Cosden buys polypropylene facility in   | Abi         | -        |          |
| boost for chemicals   | Mar 2          | 21   | 71       | American Development — Ethanol plant, second, in Hastings, Neb R            | Ans 1           | 8 17          | La Porte, Tex. (table)  | Apr         | 7        | 15       |
| Albright & Wilson — Phosphorus chemi-<br>cals investments stepped up N            | Jan            | 4    | 16       | American Enka — Nylon carpet yarn and                                       | Apr 1           | 0 17          | EG: "tracking" new technology EPS: Optimism outpaces overcapacity                 | Mar         | 1        | 35       |
| Sales and earnings 1983 N   | Mar 1          |      | 28       | fiber prices N<br>American Hoechst — EOCOM Electronic                       | Apr 2           | 5 57          | (chart)  Expandable polyethylene copolymer,                                       | Feb :       | 29       | 18       |
| Alcan — Laterriere aluminum smelter at  |                |      | 00       | Systems Div. to be sold to Gerber Sci-                                      |                 |               | foam material Arcel, launched N   | May         | 30       | 9        |
| Chicoutimi, Que. plans move forward. N<br>All South Supply — Squeezing insecti-   | Apr 1          | 18   | 28       | entific Instrument  | May             | 2 18          | Methanol-TBA additive backfire: four<br>Missouri gasoline distributors sue        |             |          |          |
| cides from oranges: fire ants, flies,   |                |      |          | low-till farming: the boom in post-   |                 |               | ArcoN   | June :      |          | 7        |
| fleas and weevils succumb to the oils<br>extracted from citrus peel               | June 2         | 27   | 20       | emergent herbicides (table) Mobil taking over some of Hoechst's             | May             | 9 12          | National Distillers confirms PE buy R<br>Polypropylene prices N                   | Jan<br>Apr  | 25<br>11 | 17<br>38 |
| Allied - Calgene interest to be sold N  | Feb 2          |      | 9        | role in p-methyl styrene joint-venture                                      |                 |               | The recent freeze takes its toll  |             | 11       | 11       |
| Capital-improvements program includes   |                | 8    | 9        | plant at Baton RougeN<br>Polyester film expansion at Greer,                 | Apr 1           | 8 20          | Arco Chemical Europe — Arco Chemical<br>Europe: To build or not to build?         | Mar         | 28       | 39       |
| four fiber projects N Caprolactam prices N  |                |      | 57       | S.C N<br>PMS: A crucial time for 'high-tech'                                | Mar 2           | 8 42          | Argonne National Laboratory — Instru-   |             |          |          |
| Caprolactam 'slightly toxic'  | May 2          | 3    | 13       | styrene (charts)  | June            | 6 20          | ment, called Shade, disposes of hazard-<br>ous waste                              | Feb         | 8        | 16       |
| Cross-linking agents: better silicone<br>cross-linkers announced                  | May            | 2    | 26       | Sales and earnings 1983 N   | Mar 2           | 8 22          | ous waste   |             |          |          |
| Dow acquires membrane patents for   | Jan 1          | 0    | 38       | Styrene monomer prices N<br>American Home Products — Drug patent            | May             | 9 60          | success story   | June        | 21       | 19       |
| chlor-alkali productionN<br>Fluorocarbon expansion at Baton                       |                |      |          | bill passes a House committee: PMA's  | luma 0          | 0 74          | Chemicals purchases product lines   | Ech         | 8        | 16       |
| Rouge, La   | Jan 1          | 8    | 18       | endorsement disavowed N<br>Whitehall Laboratories will sell ibupro-         | June 2          | 0 74          | and technology  | Feb         |          |          |
| berg, Ont.; Geismar facility being ex-  |                |      |          | fen as Advil: Ibuprofen's contested   | home            | 0 10          | chlorides plant   | Feb         | 15       | 33       |
| pandedR   |                | 2    | 16       | road over the counter   | June            | 6 12          | up for Scripps method for factor VIII   | Jan -       | 11       | 24       |
| Correction  | May            | -    | J        | gram to develop liposome-based medi-  | Mar 2           | 0 00          | Armstrong Rubber — Kevlar fiber to ride<br>in style in passenger tires N          | June        | 6        | 9        |
| cess enables Allied to become first U.S. source                                   | May            | 2    | 37       | Joint venture with Collaborative Re-  | Mar 2           | 8 33          | Passenger-car version of Tredloc radial   |             |          |          |
| Inventories: How companies are hold-  |                |      | -        | search to make and market labor-<br>atory tests that detect human in-       |                 |               | tire: Fibers had a good first quarter<br>Armstrong World Industries — Asbestos    | Mar         | 28       | 12       |
| ing down inventories (charts) Investor relations. Courting with more              | Feb            | 8    | 28       | herited diseases N  | Jan 1           | 8 38          | fund (table)  | Apr         | 25       | 18       |
| finesse (tables)  | Feb 1          | 15   | 34       | Medical diagnostics: Hot and tough to                                       | Feb 2           | 9 3           | feasibility study for ethylene dichloride   |             |          |          |
| Japanese patent on Metglas amorphous<br>metal alloys received R                   | Jan 1          | 18   | 18       | crack — Viewpoint   | 100 2           |               | plant in Australia N  | May         | 30       | 18       |
| Liquid fertilizer business to be sold to  |                |      |          | ket for chemicals and hardware (table)                                      | Feb 2           | 9 30          | Membrane cell technology for Akzo   | Feb         | 22       | 20       |
| AAC HoldingsN<br>Low-molecular-weight polyethylene                                | Jan            | 4    | 9        | American Petrofina — Cosden Oil &   | 100 2           | .0            | unit  |             |          |          |
| wax plant, second phase of expan-   |                | 0    | 10       | Chemical see under name<br>American Ref-fuel — Joint venture for re-        |                 |               | PontN<br>Asahi Glass — Membrane recovers oxy-                                     | May         | 9        | 33       |
| sion at Orange, Tex. completed R<br>Medical diagnostics: Hot and tough to         | May            | 2    | 19       | fuse-fired power  | Feb             | 8 16          | gen for industrial use N<br>Sales and earnings 1983 N                             | Jan         | 18       | 38<br>19 |
| crack — Viewpoint   | Feb 2          | 29   | 3        | to supply company with nearly 100% of                                       |                 |               | Asarco — Antimony oxide prices N  | Mar<br>May  | 2        | 31       |
| ket for chemicals and hardware  |                |      |          | the dry-film photopolymers it needs to                                      |                 |               | Copper smelter at Tacoma is the focus   |             |          |          |
| (table)   | Feb 2<br>Mar 2 | 29   | 30<br>80 | make printed-circuit boards N<br>Ames Laboratories — Medical diagnos-       | May             | 2 9           | of a struggle to set arsenic-emission standards                                   | Jan         | 4        | 13       |
| Soda ash prices N June 13-24, N   | June 2         | 20   | 60       | tics: dip-stick type urine glucose kits                                     | Feb 2           | 29 32         | Lead exposure reached N<br>Study of the link between arsenic and                  | Feb         | 8        | 40       |
| Stock splits and bigger dividends N<br>Technology to make the silicon com-        | May            | 9    | 11       | Amgen — Biotech firms scramble for<br>new ways to raise cash                | May 2           | 23 9          | cancer will take place at Tacoma,   |             |          |          |
| pounds used in semiconductors N   | Jan            | 11   | 32       | Genetically engineered hormone to   | lon '           | 11 22         | Wash, smelting plant N<br>Asbestos Hazard Program Research —                      | Apr         | 4        | 34       |
| Unimar partnership bid for acquisition of Enstar meets resistance N               | May :          | 30   | 9        | counter anemiaN How genetic engineers will customize                        | Jan             |               | Asbestos containment: A controversial   |             |          |          |
| Uranium producers: Far-off silver lin-  |                |      |          | proteins  | Mar 2           | 21 79         | Ashland Chemical — Acquires Scientific  | June        | 20       | 33       |
| ings (chart)  | Apr            | 11   | 13       | make and market a synthetic hor-  |                 |               | Gas Products  | Feb         | 1        | 17       |
| Allied Colloids — Nalco Chemical reaches<br>patent suit settlement                | Apr            | 18   | 17       | mone for boosting red blood cells<br>May 23-9,                              | May 2           | 23 35         | urethane-adhesives businessN  | Feb         | 8        | 9        |
| Allnet Communication Services — Pacific   | г ф.           |      |          | Making new ventures on  | Apr             | 11 45         | Adhesives makers court the clubby   | Mar         | 20       | 10       |
| Chemical Products files damage suit<br>against the installers and providers of    |                |      |          | Ammonia Casale — Whose NH, plant is<br>the most energy-efficient? Lummus,   |                 |               | auto market   | Ividi       | 20       |          |
| new telephone system  | June           | 13   | 17       | with Ammonia Casale technology, chal-                                       |                 |               | to promote automotive resins R  | Feb         | 1        | 17       |
| by Dexter   | Jan            | 11   | 9        | lenges Kellogg — Letter   | Mar :<br>June : | 21 15<br>20 5 | Counterfeiting: legislation aims at curb-<br>ing products with bogus trademarks   | May         | 2        | 16       |
| Altradec - Continental Packaging's ac-  |                |      |          | Letter     Amoco Chemicals — Gulf Oil Chemical's                            |                 |               | Ashland Oil — Building a business on small business                               | Apr         | 11       | 26       |
| quisition of interest will give company<br>access to technology for Menu Box R    | June           | 13   | 17       | polypropylene business may be ac-<br>quired                                 | Jan             | 18 12         | - Letter  | Apr         | 25       | 5        |
| Alumax — Quebec chosen as site of<br>aluminum plant because of cheaper            |                |      |          | Methanol warnings for customers R<br>Octane boosting: BTX vs oxygenates —   | Apr             | 11 23         | Goldman, Sachs retained to help sell<br>Integon insurance subsidiary R            | June        | 6        | 17       |
| electrical ratesR   | Feb            | 15   | 16       | battle over lead substitutes (chart)  | Mar :           | 28 27         | Wage rates agreement follows Gulf's   |             |          |          |
| Quebec lures industry with cheap<br>hydropower                                    | May            | 23   | 22       | Polypropylene: alleged European price fixing                                | June :          | 20 23         | settlement  | Jan         | 10       | 9        |
| Aluminum Co. of America — Alumina   |                |      |          | Ampro Chemical — The recent freeze  | Julio .         | 20 23         | Apollo One, scheduled for launch N  | Feb         | 8        | 9        |
| chemicals: Looking for an upturn Continental Packaging terminates joint           | May            | 23   | 20       | takes its toll  | Jan 1           | 11 11         | Ocean incineration of PCBs: EPA<br>needs 'more questions answered'                | June        | 20       | 39       |
| project to make aluminum food   |                |      |          | Amspec Chemical — Antimony organics   | June 2          | 27 16         | Atlantic Richfield — Chinese ammonia  |             | -        | 20       |
| cans  | Apr            | 11   | 23       | prices  | Julie 2         | 10            | plant contract sought N<br>Octane boosting: BTX vs oxygenates —                   | May         |          |          |
| tled N Alusuisse Italia — Improved know-how                                       | June           | 13   | 40       | cats Ltd.: A bold expansion policy  | F-4             | 0 04          | battle over lead substitutes (chart)<br>Atlas Copco Comptec — Sizing compres-     | Mar         | 28       | 27       |
| for phthalic anydrideN  | Feb            | 29   | 28       | abroad pays off for ICL   | Feb             | 8 21          | sors from a data base: pilot program  |             |          |          |
| Amano — Medical diagnostics: diagnos-   | F-6            | 00   |          | Adapts CRISP software to Digital Equip-                                     |                 |               | gives customer access to the sup-<br>plier's mainframe                            | May         | 2        | 25       |
| tic-grade bulk enzymes  | Feb            | 29   | 32       | ment's microcomputersN  | June .          | 20 26         | ATOCHEM — Consolidation of production   |             |          |          |
| material with a glass-fiber core wrapped  | Feb            | 15   | 13       | Anchor Hocking — Plastic ovenware and<br>closure plants expanding capacityR | May             | 9 22          | units is set  | Apr<br>June | 9 13     | 18<br>20 |
| in fiber: Airline safety's boost for fibers<br>Amax — Climax molybdenum mine near |                |      |          | Angus Chemical - Nitroparaffin deriv-                                       |                 | -             | LPG to make ethylene: Algerian capa-  |             |          |          |
| Leadville, Colo. to reopen  | Mar            | 14   | 24       | atives joint venture with isochem; plant to be built in Wales               | Eah             | 1 9           | city may be a bonanza for Europe's<br>petrochemical makers (chart)                | Jan         | 25       | 16       |
| protection from cut-rate offshore im-   |                |      |          | Angus Chemie — Supplier for European  | Feb             |               | Polypropylene: alleged European price   |             |          |          |
| ports N<br>Producers file for import relief N                                     | Apr<br>Apr     |      | 38<br>20 | producers N<br>Anzon America — Antimony organics                            | Feb             | 1 9           | fixing F<br>Ault & Wiborg Group — Sun Chemica                                     | June        | e 20     | 23       |
| Amax Materials Research Center -  |                |      |          | prices N  | June            | 27 16         | purchases additional shares F   | Mar         | 21       | 19       |
| Catalyst services will be offered N<br>American Coatings — Asbestos contain-      |                | 14   | 46       | Apache Petroleum — Dow Chemical sells<br>depositary units to Smith Barney N | Jan             | 18 9          | Avis — Esmark's acquisition by Beatrice<br>Foods: Whither Esmark's and Beatrice's | 1           |          |          |
| ment  | June           | 9 20 | 33       | Applied Automation — Distributed system                                     |                 |               | chemicals?  | May         | y 30     | 13       |
| American Cyanamid — Affleck retires;<br>Sella elected to the additional post of   |                |      |          | of gas chromatography N<br>Applied Membrane Technology — Mem-               | June            | 20 26         | Specialty libers  | May         | y 16     | 52       |
| chairmanN   |                | 25   | 11       | brane modules for oxygen production N                                       | Feb             | 8 34          |   | May         | y 30     | 13       |
|   |                |      |          |   |                 |               |   |             |          |          |

| Rayon filament yarn prices N  | May        | 9        | 60       | Berry Energy — MEOR field tests Betz Laboratories — Acid-free approaches  | Jan        | 25    | 58       | U.S. Oncology Div. will be formed on Jan. 1, 1985   | June 20           | 1     | 23       |
|---|------------|----------|----------|---|------------|-------|----------|---|-------------------|-------|----------|
|   |            |          |          | to treating cooling water; comments on<br>Calgon's pHreequard   | Mar        | 7     | 11       | mobilized enzyme for corn syrup N   | Mar 21            | 1     | 78       |
| В   |            |          |          | Beaumont, Tex. plant to make com-<br>plete line of organic and inorganic  |            |       |          | BP Canada — Potash feasibility study<br>Wolf Lake oil sands project: Canada's                     | Mar 14            | 4     | 38       |
|   |            | _        |          | specialty chemicals   | Apr        | 11    | 23       | synfuels — a cautious phoenix BP Chemicals — Ethylene glycol: Mas-                                | Feb 22            | 2     | 40       |
| BASF — Badische: U.S. polymer presence<br>EEC fertilizer makers squabbles: Dutch                        | May        | 2        | 13       | salesmen  | Feb        | 1     | 13       | sive restructuring in a 'crummy busi-   |                   |       |          |
| competition is still "unfair" Polypropylene: alleged European price                                     | June       | 6        | 16       | U.S. marketing rights for quaternary  |            |       |          | ness' (charts)  PMS and PPMS: A crucial time for 'high-   | Mar               |       | 32       |
| fixing  | June 2     | 20       | 23<br>18 | ammonium compounds N<br>Biles and Associates — AIM software<br>package: Where hardware and soft-                      | June       | 6     | 18       | tech' styrene (charts)  | June 6            | 6     | 20       |
| Tillmann at FI meeting discusses inter-   |            |          |          | package: Where hardware and soft-<br>ware clash   | Jan        | 25    | 20       | fixing  | June 20<br>Mar 28 | 0     | 23<br>22 |
| national fertilizer outlook N<br>Toyo Ink goes after BASF's pigment                                     | June 2     | 20       | 60       | Billerud — Completes chlor-alkali con-<br>version to membrane cell output N   | Feb        |       | 20       | Sandbach Div., chlor-alkali operation,  |                   |       |          |
| markets N<br>West German chemical firms display   | May        | 2        | 20       | Billion Metals — USITC finds titanium   |            |       |          | sold to Hays Group N BP Chemicals International — Sales and                                       | Mar 2             |       | 20       |
| new strength (charts & table)<br>BASF Wyandotte — Acetylene chemicals                                   | June '     | 13       | 28       | dumping   | Feb        | 1     | 25       | earnings: first-quarter 1984 N<br>BP Exploration Canada — Canada's syn-                           | June 2            | 0     | 50       |
| plant in Geismar, La  | Mar a      | 21       | 18       | ways to raise cash  | May        | 23    | 9        | fuels: a cautious phoenix   | Feb 2             | 2     | 40       |
| Cogenerator/utility fuss over avoided costs   | Feb        | 8        | 12       | Pharmaceuticals Bureau Factor VIII developments   | Jan<br>Jan |       | 16<br>24 | British Sulfur — Soviet potash production assessment.   | Mar 1             |       | 40       |
| Geismar, La. plant: OCAW talks remain in limbo  | June :     | 27       | 15       | Factor VIII race  | May        | 9     | 17       | British Tioxide — Sibit acquisition pursued.<br>Brockway — IMCO Container business of             |                   |       | 17       |
| Herbicides follow the current trend to<br>low-till farming: the boom in post-                           |            |          | -        | protest patent on alpha interferons N   | Feb        | 29    | 5        | Ethyl to be purchased N<br>Brookhaven National Laboratory — Methyl                                | Mar               | 7     | 9        |
| emergent herbicides (table)   | May        | 9        | 12       | Biological Energy — Solvent pulping: How solvent pulping gets more from the tree                                      | Jan        | 4     | 26       | Probing materials with a synchrotron  |                   | 4     | 14       |
| BBC Brown — Electric autos: joint ven-<br>ture with Magna International N                               | Apr        | 4        | 34       | Bio-Rad Laboratories — Medical diagnos-   | Feb        |       | 33       | Brooklyn Union Gas — Tapping the hig-   |                   |       |          |
| B.C. Equipment — Dynachem Italia to buy company   | Feb :      | 22       | 18       | tics Bio-Response — Enzyme may offer protec-  |            |       |          | den treasure in landfill gas  | •June 2           |       | 28       |
| BDM — Runway repair materials devel-<br>opment program N  | May        |          | 35       | tion from nerve gas N Jan 25-19, N<br>Monoclonal antibodies' industrial scale-  | Feb        | 29    | 23       | gineering companies<br>Browning-Ferris — American Ref-fuel,                                       | Apr               | 4     | 30       |
| BOC Group — Airco Industrial Gases divi-  | iviay      |          | 00       | up: producing kilogram quantities for<br>purifying proteins and fighting di-  |            |       |          | joint venture for refuse-fired power R<br>Bulgarian Chemical Industry — UC grants                 | Feb               | 8     | 16       |
| sion see under name<br>Air-separation facility at Kittery, Me.  |            |          |          | sease (Mass Culturing Technique)<br>Bio-Science Laboratory — Medical diag-<br>nostics: lab tests to identify patients | Mar        | 28    | 28       | license for lenSiv process  | Jan 1             |       | 16       |
| due onstream  | Feb<br>Mar | 15<br>21 | 9<br>66  | nostics: lab tests to identify patients   | F-L        | 00    |          | Burlington Northern — Another shipper/  |                   | 8     | 5        |
| BS&B Energy Systems — Fluidized-bed boilers   | June       |          | 44       | with AIDS.  Biotech Research Labs — Center for Advanced Research in Biotechnology,                                    | Feb        | 29    | 31       | railroad brawl  | Feb 1             | 5     | 14       |
| Babcock Power - Multifuel Boilers, joint  | ouno       | 20       |          | vanced Research in Biotechnology,<br>CARB: new biotech center allies di-  |            |       |          | Supermart paints manufactured on a<br>private-label basis   | Apr               | 4     | 10       |
| venture, promotes Solid Circulation<br>Boiler (diagram)   | June       | 20       | 44       | verse groups  | Feb        | 22    | 16       | private-labor basis   | Apr               | 7     | 10       |
| Badger — New directions for engineering companies.  | Apr        | 4        | 30       | Biotechnology Companies (table)   | Jan        | 25    | 13       |   |                   |       |          |
| companies   |            |          |          | Making new ventures go: marketing as-<br>sist (chart)   | Apr        | 11    | 45       | С   |                   |       |          |
| Badische Corp. — Acrylic esters prices N  |            | 22       | 28<br>57 | BioTechnica — Pacts signed with Mon-<br>santo to develop a pesticide and H.J.   |            |       |          |   |                   |       |          |
| Caprolactam prices N Apr 4-26, N<br>U.S. polymer presence: new unit at                                  | Apr        | 25       | 57       | Heinz to develop animal-feed prod-  | Apr        | 11    | 23       | CBI Industries — Liquid Carbonic to be  | June 2            | 10    | 10       |
| Bridgeport, N.J. to market its brand<br>of polymers   | May        | 2        | 13       | BioTechnica International — U.K. affiliate  | Apr        |       | 2.0      | acquired  |                   |       | 13       |
| of polymers   | Feb        |          | 31       | formed to develop products and tech-<br>nologies for use in natural gas produc-                                       |            |       |          | cards, bets high  | Apr 1<br>June     |       | 30<br>18 |
| Bass Brothers — Ashland's carbon black  |            |          |          | tion from solid waste   | Mar        | 28    | 19       | Cutbacks planned  | Jan 2             |       | 57       |
| domestic division to be acquired<br>Battelle Columbus Laboratories — Asbes-                             | Apr        |          | 26       | BioTechnical Ltd. — U.K. affiliate formed<br>to develop products and technologies                                     |            |       |          | talas says the competition from   |                   |       |          |
| tos encapsulation products study Cellular and Molecular Biotechnology                                   | June       | 20       | 34       | for use in natural gas production from solid waste  | Mar        | 28    | 19       | Dutch fértilizer producers is still<br>"unfair"   |                   | 6     | 16       |
| Section formed  | May        | 30       | 34       | solid waste   |            |       |          | Feedstock unit for a Qatar project N<br>France slows capital investment in                        | Mar               | 7     | 19       |
| by D.J. Fink  | Feb        | 22       | 42       | ment with Virginia Commonwealth   | Fab        |       | 04       | chemicals   | Mar 1             | 14    | 28       |
| Study to improve coatings for U.S.<br>Coast Guard's buoys N<br>Battelle's Geneva Laboratories — Solvent | Mar        | 14       | 46       | Univ  | Feb        |       | 34       | dropower: urea-ammonia plant con-   | May 1             | 20    | 00       |
| pulping: How solvent pulping gets more  |            |          |          | ing biotech industry  | Jun        | e 6   | 28       | sidered   | May 2             | 23    | 22       |
| from the tree   | Jan        | 4        | 26       | dustry  | Jun        | 0 6   | 28       | ethylene project in Qatar N<br>Urea plant in Canada: feasibility study. N                         | Feb<br>Feb        | 1     | 20       |
| to animals in tests for safety N<br>Developing stress-tolerant ceramics. N                              | Apr<br>Mar | 4        | 34<br>46 | ing study (1976) pegged CMA and methanol as promising products  | Mar        | 28    | 14       | CF Industries — Baxter at FI annual meeting   | Feb 2             | 22    | 11       |
| Risk assessors: How processors assess   |            |          |          | Blendax Werke — Hair-care mousses:  |            |       |          | The recent freeze takes its toli  | Jan               |       | 11       |
| plant risk (diagram)  | Feb        |          | 29       | Poly Schaumkur  | ма         | 21    | 72       | CGS Prodotti Chimici — Dynachem Italia formed to buy company R                                    | Feb 2             | 22    | 18       |
| program N<br>Baxter Travenol — Chymopapain: A back-   | May        | 23       | 35       | Marketing agreement with Genentech<br>for genetically engineered agent that   |            |       |          | C-I-L — Quebec lures industry with cheap<br>hydropower  | May :             | 23    | 22       |
| drug labeling change  | June       | 20       | 23       | dissolves blood clots   | Jan        | 4     | 13       | Sales and earnings: first-quarter '84 . N<br>CNG Fuel Systems — Compressed na-                    | May               | 9     | 25       |
| progress  | Jan        |          | 24       | andreou's squeeze drives drug firms out   | Fet        | 8     | 15       | tural gas for an automobile fuel: Nova<br>has 50% interest  | June :            | 27    | 89       |
| Factor VIII race  | May        | 9        | 17       | Medical diagnostics. A red-hot market<br>for chemicals and hardware (table).  | Feb        | 29    | 30       | CP Chemicals — Copper sulfate prices. N   | May               | 2     | 31       |
| and sell diagnostic products for people   | Jan        | 4        | 13       | Bolar Pharmaceutical — Court decision<br>prohibiting selling of product said to                                       |            |       |          | CR Seeds — Rohm and Haas forms joint<br>venture with Coker's Pedigreed Seed R                     | Mar               | 14    | 24       |
| Medical diagnostics: joint venture<br>Travenol-Genentech Diagnostics                                    | Feb        | 29       | 31       | imitate Ciba-Geigy's Apresazide will not be reviewed by Supreme Court R   | Ma         | r 14  | 24       | CRA — Australia: CRA withdraws from feasibility study with Asahi for ethylene                     |                   |       |          |
| Bayer — Miles Laboratories see under  | 1 00       |          | ٠.       | BOOTS — EC IITIS RESTRICTIONS ON THE DRICE  | Jan        |       | 16       | dichloride plant  | May               | 30    | 18       |
| name<br>Sales and earnings 1983 N   | Apr        | 18       | 28       | of saccharin N<br>Borden Chemical — Water-based inks for  |            |       |          | cracking catalyst business to be ac-  | Man               | 01    | 12       |
| Uhde operating single cell at Lever-<br>kusen complex   | Feb        | 22       | 20       | Borg-Warner Chemicals — ABS prices . N  | Api        | 18    | 10<br>38 | csR — Natural gas pipeline proposed N   | Mar<br>June       | 27    | 13<br>90 |
| West German chemical firms display<br>new strength (charts & table)                                     | June       |          | 28       | Sparmar Dispersants Plant in Spartan-<br>burg, S.C. expansion   | Ma         | r 14  | 24       | Cabot — International division of Ash-<br>land's carbon black operations to be                    |                   |       |          |
| Beatrice Foods — Acquisition of Esmark:   | Garre      |          |          | Boyne Island Aluminum — CSR proposes<br>natural gas pipelineN   |            | e 27  | 90       | acquired  | Apr               | 11    | 26       |
| Whither Esmark's and Beatrice's chemicals?  Bechtel — New directions for engineering                    | May        | 30       | 13       | Braun C.F. — New directions for engin-  |            |       |          | tics. A red-hot market for chemicals  |                   |       |          |
| companies   | Apr        | 4        | 30       | eering companies  | Api        | 4     | 30       | and hardware (table)  | Feb               | 29    | 30       |
| Becton Dickinson — Medical diagnostics.<br>A red-hot market for chemicals and                           |            |          |          | to acquire commercial laundry chemi-  | Jur        | ne 20 | 13       | tech startup  | Jan<br>Feb        | 11 22 | 13       |
| hardware (table)  | Feb        | 29       | 30       | Savinelli, Emilio A., president and chief<br>executive officer: For BBC, no easy                                      | -          |       |          | Calgon pHreeguard, acid-free product  |                   |       |          |
| Beecham Group — Acquisition of Roberts<br>Consolidated Industries: a bigger U.S.                        |            |          |          | road to a turnaround  | Jur        | ne 13 | 21       | for treating cooling water, billed as revolutionary, draws competitors' scorn — Letters Mar 28-5, | Mar               | 7     | 11       |
| base for BeechamN<br>Beker Industries — Beker Erol Y. pres-   | Mar        | 21       | 20       | Brichima — Enichimica Secondaria look-<br>ing to increase its interest  | Jar        | 1 4   | 17       | Water management: Chemical water.   |                   | 18    | 5        |
| ident and COO: The other Beker is now COO at Beker  | Feb        | 1        | 34       | Bristol-Myers — Drug patent bill passes a<br>House committee: PMA's endorsement                                       |            |       |          | Winners and losers in the coming crisis (map, tables, charts)                                     | Feb               | 22    | 34       |
| Beker Phosphate — Florida judge's order:  |            |          | 9        | disavowed   | Jur        | ne 20 | 74       | California Biotechnology — Calcium-disor-<br>der regulators: research and licensing               |                   | _     | -        |
| Let Beker's phosphate trucks role N<br>Florida phosphate land swap likely                               | May        | e 13     | 10       | fen's contested road over the coun-   |            |       |          | agreements signed with Massachusetts  |                   | 00    | 0=       |
| Legal battle with Florida's Manatee<br>County property appraiser over two                               |            |          |          | Research grants to two cancer cen-  | Jui        |       | 12       | General Hospital N<br>Cambo Inc. — Montedison's U.S. sales rep,                                   |                   |       | 35       |
| floating dredgesR   | May        | 23       | 17       | ters N  | Ma         | y 2   | 37       | will pitch elastomers to Detroit  | Jan               | 18    | 16       |
|   |            |          |          |   |            |       |          |   |                   |       |          |

| Cambridge BioScience — Diagnostic tests<br>for AIDS-associated virus being de-<br>veloped  | May 9             |
|--|-------------------|
| Cambridge Energy Research Associates —<br>Nuclear power cost overruns: measur-   |                   |
| ing the impact   | Mar 14            |
| Companies (table)  | Jan 25            |
| suit settled   | June 13           |
| gets the largest Superfund contract N<br>Campbell Soup — Plastics in food pack-  | June 13           |
| aging.  Reassessing the conventional tin can R  Canadian Reynolds Metals — Aluminum  smelter: Quebec lures industry with   | Jan 18<br>Apr 11  |
| cheap hydropower   | May 23            |
| engineers will customize proteins Carnegie-Mellon — Ordered polymers re-   | Mar 21            |
| search Robots that will sniff chemicals Catalyst Resources — Polypropyjene polymerization catalyst, Lynx 900, will   | Apr 11<br>Mar 14  |
| make older plants competitive N<br>Catalyst Technology — Acquired by UC  | Feb 15            |
| and will become a subsidiary of Linde<br>Div   | May 2             |
| projects : SFC readies price and loan<br>supports  | Apr 11            |
| heatsun  | Mar 7<br>June 20  |
| Acetic acid prices N Arnel triacetate — new applications pushed: Fibers had a good first   | Mar 28            |
| quarter<br>Automotive plastics<br>Buying 750,000 shares of its outstand-   | Mar 7             |
| ing stockN   | May 2             |
| Inventories: How companies are hold-<br>ing down inventories (charts)<br>Methanol plant at Clear Lake, Tex.  | Feb 8             |
| being closed N   | Feb 29<br>June 13 |
| Tex  | Apr 4<br>Feb 8    |
| New resins facility staked out N<br>Occidental Chemical's Durel polyaryl-<br>ate engineering-resins operation  |                   |
| may be bought  | June 20<br>Apr 11 |
|  | Mar 21            |
| PBI fiber: Airline safety's boost for libers Paintmakers: water-borne alkyds Polyester yarn prices N Prices for nine products, including   | Apr 4<br>June 6   |
| Prices for nine products, including methanol and formaldehyde N Sales and earnings: first-quarter N  | June 13<br>Apr 18 |
| Seed deal with Vencon fails to ger-  |                   |
| minate   | May 9             |
| Mexicana has beaten the odds   | May 16            |
| Cellular Products — Charter member of<br>the Association of Biotechnology Com-<br>panies (table)   |                   |
| Celotex — Asbestos fund (table)  | Apr 25            |
| Center allies diverse groups   | Feb 2             |
| Files complaint against soft-drink mar-<br>keters charging NutraSweet advertis   | lan O             |
| ing is misleading  | Jan 29            |
| ing is misleading.  Center for the Study of American Busl ness — Weidenbaum at CMA annua meeting; CMA consensus: 'Enjoy 1984 Centers for Disease Control — Epidemi ological study will look at the entire "Vistana experience" | June 13           |
| Centex — Continental Illinois Nationa  | I mai             |
| Bank & Trust suing Grace and Center<br>over 1980 loan to Grace for natural-gas   | S                 |
| projects in Mississippi  | -                 |
| (table)  | lan 2             |
| hepatitis B  | Mar 2             |
| Cetus — Biotech firms scramble for new   | 4 June 2          |
| ways to raise cash   | Feb 2             |
| eered farm products: 'Possibly the larg<br>est' bioventure<br>T-cell growth factor: Who's ahead in the   | June 2            |
| IL-2 race?   | . Apr 1           |
| nology data  | . Mar             |
| Champion International — Paper and plastic vie for the milk container (chart)<br>Channing, Weinberg — Medical diagnost   | Feb               |
| tics  Charbonnages de France — CdF Chimi   | . Feb 2           |
| ene under neme   | -                 |

| 9                  | 33       | Charles River Breeding Laboratories —<br>University of Wisconsin-Madison set-<br>tles suit over sale of genetically impure<br>mice N           |
|--------------------|----------|--|
| 14                 | 33       | Chase Econometrics — Daniel's fertilizer forecast at FI meeting<br>Prime-rate hike dampens few hopes   |
| 25                 | 13       | Chattern — Petrochemicals subsidiary to<br>be sold to De Soto R Mar 21-18, R   |
| 13                 | 40       | Sales and earnings: fourth-quarter '83   |
| 13                 | 40       | '83 N Chern-Clear — Cording comments on Du Pont's wastewater venture Chern Systems — Bauman comments on  |
| 18<br>11           | 26<br>23 | propylene facility in La Porte, Tex  |
| 23                 | 22       | Leaded fuel phaseout: dealers whipping<br>up "homemade" blends with excess<br>methanol   |
| 21                 | 79       | methanol<br>NGL: The looming LPG glut. John M.<br>Winton (charts, table, map)<br>Process for Air Products' methanol                            |
| 11                 | 35<br>29 | Process for Air Products' methanol unit. R Chem Systems International — Ethylene glycol: Massive restructuring in a crummy business' (charts). |
| 15                 | 33       |  |
| 2                  | 9        | covery continues . N CHEMARK Information Services — For paintmakers, sharp marketing and sharp pencils (charts).                               |
| 11                 | 58       | Chembond — Getty's chemical units may  |
| 7<br>e 20          | 24<br>60 | Texaco's bid for Getty: Whither Getty's chemicals? (chart)   |
|                    |          | chemicals? (chart) ChemDesign — 'Buy American': just opened for business, the firm stresses reprographic chemicals                             |
| 28                 | 13       | Custom drug houses: The new entries .<br>Lubrizol Enterprises acquires an inter-   |
| y 2                | 9        | est  |
| 8                  | 28       | whether companies can skirt a court<br>order for cleanup for filing for bank-  |
| 29<br>e 13         | 23       | 'Joint and several' stands firm  |
| 8                  | 16       | Chemed — An independent Chemed hits<br>the acquisition trail<br>Brent Chemical Corp.'s commercial<br>laundry chemicals division to be          |
| e 20               | 13<br>35 | acquired   |
| 11<br>r 21<br>r 15 | 65<br>13 | Omnitrex, polymer-based acid-free<br>product for water treatment   |
| 4                  | 11       | Sheet  |
| ne 13              | 24       | Ethylene glycol in Japan Chemical, Independent Petrochemicals — EPA sues over dioxin contamination in Missouri N                               |
| 25                 | 11       | in Missouri N<br>Chemical Marketing Associates — Oc-<br>tane boosting: BTX vs oxygenates   |
| у 9                | 25       | Chemical Marketing Services — Broxter-   |
| ıy 16              | 47       | man discusses demand for auto adhe-<br>sives Chemical Products — Barium chloride   |
| n 25<br>r 25       | 13<br>18 | and barium carbonate: USITC finds<br>dumping from China  |
| b 22               | 16       | university/industry match  |
| 0 22               | 10       | tries acquires an 80% stake N Chemical Waste Management — Delay but no dismay for ocean incineration . EPA cere inventions alleged violettees  |
| n 25               | 13       | EPA case involving alleged violations of RCRA at Denver Arapahoe facility: CWM will appeal \$40,000 fine Ocean-incineration plan stalls        |
| ne 13              | 16       | Ocean incineration: A setback for PCB incineration at sea — EPA denies   |
| ar 14              | 21       | CWM two research permits Chemische Werke Hueis — Polypropylene: alleged European price fixing R West German chemical firms display             |
| ne 27              | 7        | new strength (charts & table)  |
| n 25               | 13       | treating cooling water; comments on<br>Calgon's pHreeguard<br>Chemplex — Getty's chemical units may  |
| ar 21              | 78       | Chemplex — Getty's chemical units may go on the auction block N Texaco's bid for Getty: Whither Getty's  |
| ne 27              | 96       | chemicals? (chart)  Chesebrough-Pond's — P&G sues over TV ad claims for Vaseline Intensive   |
| ay 23<br>b 22      | 9        | Care Skin Lotion   |
| ne 20              | 15       | Say they sell the best   |
| or 18              | 16       | Grip, will be used on San Francisco cable cars R Counterfeiting: Legislation aims at   |
| ar 7<br>ab 1       | 22       | curbing products with bogus trade-   |
| eb 29              |          | Formaldehyde-glycolic acid-glycolate<br>route to ethylene glycol: A cheaper<br>route to glycol? — Viewpoint                                    |
| 2.0                | 50       | route to glycol? — Viewpoint<br>Ethylene glycol: Massive restructur-<br>ing in a 'crummy business' (charts)                                    |

| in) |             |         |          |   |                           |                |
|-----|-------------|---------|----------|---|---------------------------|----------------|
|     | Mar         | 7       | 32       | Colgate-Palmolive — Acquisition ru-<br>mors   | May 9                     | 11             |
| ,   | Var         | 7       | 3        | partnership with Rohm and Haas<br>Seeds   | Jan 25<br>Mar 14          | 17             |
|     | May         |         | 16       | misleading complaint charges  | Jan 25                    | 13             |
|     | lune<br>Apr | 27      | 14       | acquisition of interest will give com-<br>pany access to technology for Menu<br>Box   | June 13                   | 17             |
|     | an          | 18      | 18       | Cobarr — Montefibre to supply PET polymer and preforms  | June 27                   |                |
| J   | an          | 18      | 11       | and sharp pencils (charts)  Coastal — Heat-transfer salt trademark  | Apr 4                     | 10             |
|     |             | 11      | 9        | imports   |                           |                |
|     | Mar         | 7       | 11       | Hinds: U.S. chemical makers yield to  | Mar 28                    |                |
|     |             | 13      | 28       | Voluntary cleanup program for Super-<br>fund sites to be organized  | June 6<br>May 16          |                |
|     |             | 20      | 23       | for sore eyes — Viewpoint   | June 6                    |                |
| J   | lune        | 20      | 39       | ping the hidden treasure in landfill gas. Clean Sites, Inc. — Clean Sites: A sight  | June 20                   | 28             |
|     | une<br>//ay |         | 36<br>40 | control City of Hope — Test that can detect cer- tain genetic diseases by "reading" an individual's DNA developed   | Mar 21                    | 78             |
|     | May         | 2       | 14       | Jan 4-9, Citizens for Better Environment — Cali-<br>fornia challenge in court to state waste<br>control   | Jan 11<br>June 13         | 12             |
| F   | eb          | 1       | 20       | nuclear plants go wrong?  Circuit Services — Acquired by Nalco N  | June 27                   | 18             |
| F   | eb          | 15      | 20       | Cigna — Asbestos fund (table)   | Apr 25                    | 18             |
| F   | eb          | 1       | 25       | cades Ciba-Geigy Pipe Systems — Reinforced plastics market discussed by diSioudi  | Apr 25                    | 11             |
| N   | lar         | 28      | 10       | Safer system tracking chemicals at<br>St. Gabriel, La. plant<br>Synthetics for restoring historic fa-   | Mar 7                     | 37             |
|     |             | 28      | 27       | Pharmaceutical chemicals plant at<br>Toms River, N.J. contract to Foster  | May 30                    | 17             |
| F   | eb          | 1       | 42       | formation systems (charts)  Larvadex, pesticide, as a control for fly larvae: another bid for approval N  | May 23<br>May 2           | 26<br>44       |
| -   | lar         | 7       | 33       | be sold   | May 30                    | 17             |
|     | an          | 4       | 9        | low-till farming: the boom in post-<br>emergent herbicides (table)  | May 9                     | 12             |
| -   | ar          | 20      | 13       | Gift of drugs to fight leprosy in India. N<br>Herbicides follow the current trend to  | Feb 29                    | 16             |
|     | ine         | 6       | 23       | purchased Purchase completed  | Jan 4<br>May 2<br>June 20 | 11<br>18<br>5  |
| Ja  | ın          | 18      | 58<br>35 | aceutical from selling product said<br>to imitate Apresazide will not be re-<br>viewed by Supreme Court. R<br>Du Pont's colored pigments operations         | Mar 14                    | 24             |
| £4  | ar          | 14      | 50       | Cogenerator/utility fuss over avoided costs. Court decision prohibiting Bolar Pharmaceutical from selling product said to initiate Aurogavide will not be a | Feb 8                     | 12             |
| Ja  | ın          | 18      | 18       | unit to be formed   | May 16                    | 11             |
| M   |             | 21<br>9 | 14<br>46 | treating cooling water; comments on<br>Calgon's pHreeguard  | Mar 7                     | 11             |
| Ja  | n           | 18      | 11       | company asking FDA to reconsider<br>rules on sodium-content labeling for<br>food covering sodium bicarbonate  | May 23                    | 12             |
| Ja  | n           | 11      | 9        | bed combustors N<br>Church & Dwight — Sodium bicarbonate:   | May 2                     | 37             |
| Ap  | ır          | 4       | 10       | Christian Engineerng — Screw conveyor<br>system for removing ash from fluidized   |                           |                |
| Ap  | ır ·        | 11      | 24       | (chart)   | Jan 18<br>Jan 11<br>May 9 | 14<br>24<br>17 |
| Ma  | ar          | 7       | 32       | imports: Syntex antidumping petitions<br>claim foreign producers trying to drive<br>U.S. competitors out of business  |                           |                |
| Ma  |             | 2       | 22       | lantic Richfield seeks ammonia plant contract . N Chinook Chemical — Choline chloride   | May 2                     | 20             |
|     |             |         | 32       | China National Offshore Oil Corp At-  | мау э                     | 11             |
| Ма  |             | 4       | 19       | stockholders ratify new name N<br>Chevron Resources — Phosphate fertil-   | May 9<br>May 9            | 11             |
| Api | r 1         | 1 7     | 15<br>13 | sulfide emission from Richmid, Calif. refinery  | Jan 18<br>Jan 4           | 18<br>20       |
|     | ne 1        |         | 11       | ceived after ammonia and hydrogen   | May 16                    | 29             |
|     | y 3         |         | 17       | Springs, Wyo: scaled down N Phosphate fertilizer project will pro- ceed N May 9-11  | Feb 15                    | 9              |
| Apr |             |         | 13       | ations to be restructured . R Phosphate fertilizer project near Rock Springs, Wyo scaled down . N Phosphate fertilizer project will pro- ceed N May 9-11    | May 23                    | 17             |
| Fet |             |         | 10       | Ortho Agricultural Chemicals Div. oper-   | May 2                     | 19             |
| Ma  | у 3         | 0       | 34       | emergent herbicides (table) Lubricant testing agreement with EG&G   | May 9                     | 12             |
|     |             |         |          | Herbicides follow the current trend to low-till farming: the boom in post-  |                           |                |

|  |        |       |    |  |            |      |          | 24-4  |              |    |          |
|--|--------|-------|----|--|------------|------|----------|---|--------------|----|----------|
| Collaborative Research — Donalds, John<br>E., formerly of Dow, to be president     |        |       |    | Arco's polypropylene facility in La  |            |      |          | Pylant comments on phaseout of<br>leaded fuel   | Mar 14       |    | 19       |
| and chief executive officer N  | May 1  | 6     | 11 | Porte, Tex. bought: Cosden buys into<br>the PP game (table)                        | Apr 1      |      | 15       | Soaring imports shrink the surplus in   |              |    |          |
| Joint venture with American Hospital<br>Supply to make and market labora-          |        |       |    | Correction     Medley discusses EPS market (chart)                                 | May<br>Feb | 29   | 18       | chemical trade (chart)  Dexter — Diversifies into specialty PVC                               | June 20      |    | 14       |
| tory tests that detect human inherited   |        |       |    | Cosmos Minerals — Pfaudler acquires  | 100        |      |          | products: acquires Alpha Chemical &<br>Plastics and Mercer Plastics N                         |              |    |          |
| diseases   | Jan 1  | 18    | 38 | weld-bonding technology, Resista-<br>CladN   | May :      | an a | 34       | Hysol Grafil see under name   | Jan 11       |    | 9        |
| assavs   | Feb 2  | 29    | 33 | Coulter Electronics - Fisons acquires  | way .      | 30   | 34       | Diachem Industries - Diatec Polymers  |              |    |          |
| Collagen — Bone.regeneration research  | Apr 2  | 20    | 30 | Curtin Matheson Scientific and Scimed  | Feb        | 22   | 20       | brings acrylamide polymers plant on-  | Mar 4        |    | 04       |
| agreement with Monsanto N<br>Color Tile Supermart — Paintmakers:                   | Apr 4  | 23    | 30 | International  | FOD        | 22   | 20       | stream at Batavia, III  | Mar 1        | •  | 24       |
| Sharp marketing and sharp pencils  | A      |       | 10 | acetate-film operation at Newark, N.J.   |            |      |          | Association of Biotechnology Compa-   |              |    |          |
| (charts)   | Apr    | 4     | 10 | to be acquired N Hysol Grafil see under name                                       | Feb        | 15   | 9        | nies (table)  | Jan 2        | 5  | 13       |
| its plastic specialties<br>Colorquim, S.A. de C.V. — Du Pont's                     | Apr    | 18    | 12 | Sales and earnings fiscal 1983 N   | June       | 13   | 20       | The Agent Orange surprise   | May 1        | В  | 24       |
| Mexican subsidiary will not be sold  | Jan    | 4     | 11 | Courtaulds North America — Mobile, Ala.<br>rayon plant will upgrade the quality of |            |      |          | Tentative settlement: payments N<br>Calcium stearate prices N                                 | May 2<br>Mar | 7  | 24       |
| Columbia Artists Management Fund —   |        |       |    | sodium sulfate byproduct   | Feb        | 22   | 18       | Chlor-alkali prices N<br>Cogeneration: Is cogeneration coming                                 |              | 6  | 35       |
| Synthetics for restoring historic fa-<br>cades                                     | Apr    | 25    | 54 | Crane Cams — MotorTech joint venture<br>Croda — Hair-care mousses: a boost         | Feb        | 29   | 10       | Cogeneration: Is cogeneration coming<br>of age at last? Texas study outlines                  |              |    |          |
| Combustion Engineering — Joint venture with Occidental, Osce Fuel, to research     |        |       |    | for chemicals  | Mar        | 21   | 71       | a formula for establishing avoided  |              |    |          |
| with Occidental, Osce Fuel, to research<br>and develop coal-water fuels R          | Feb    | 1     | 17 | Crown Zellerbach — Plastics in food  | Jan        | 10   | 26       | Domestic distribution network, Ocean  | June 1       | 3  | 10       |
| Lummus Crest see under name  | 100    |       |    | packaging  | Jan        | 10   | 20       | Systems Network, will offer single-<br>price, single-contract service cover-                  |              |    |          |
| New directions for engineering com-  | Apr    | 4     | 30 | quires company from Coulter Electron-  | Enh        | 20   | 20       | price, single-contract service cover-<br>ing transportation N                                 | Apr 1        | 4  | 11       |
| panies   | Api    | -     | 30 | Custom Energy Services — Sun Coast   | Feb        | 22   | 20       | Duolite International see under name  | Apr 1        |    | 11       |
| vert phosphate rock dryers to coal-oil   | Mar    | 7     | 30 | Plastics buys out its partner in joint   |            | 00   | 10       | Grace drops bid for Metal Coatings and  | lan f        | e  | 0        |
| Commodities Research Unit - Uranium:   | INICAL | ,     |    | venture  | Mar        | 11   | 19<br>30 | Process Chemicals divisions N<br>Diamond Shamrock Alberta Gas — Nova                          | Jan 2        | .5 | 9        |
| An upbeat forecast for uranium N<br>Community Nutrition Institute — Files          | Jan    | 25    | 24 | Cyanotech — Nitrogen-fixing algae N<br>Cytogen — Biotech firms scramble for        |            |      |          | produces PVC at Fort Saskatchewan   |              |    |          |
| suit to ban sale of aspartame sweet-   |        |       |    | new ways to raise cash Chubb comments on monoclonal anti-                          | May        | 23   | 9        | plant   | June 2       | 27 | 88       |
| ener   | Feb    | 1     | 17 | bodies' scale-up   | Mar        | 28   | 30       | Sherwin-Williams zinc oxide manufac-  |              |    |          |
| Compagnie des Vernis Valentine — Acquired by ICI N                                 | Apr    | 25    | 25 | _  |            |      |          | turing facility at Hillsboro, IIIR<br>Diamond West Energy — Desulfurizing                     | Apr          | 11 | 23       |
| Conair — Jheri Redding see under name  |        |       |    | D  |            |      |          | petroleum coke N<br>Desulfurizing petroleum coke: route                                       | Mar 2        | 21 | 78       |
| Connaught Laboratories — Genetically engineered human insulin N                    | Jan    | 4     | 29 |  |            |      |          |   |              |    |          |
| Connaught Novo — Canadian insulin  |        | -     |    | DM International — New directions for<br>engineering companies                     | Apr        |      | 30       | anodes.  Diatec Polymers — Acrylamide polymers plant at Batavia. III.                         | Apr          | 4  | 22       |
| marketing N<br>Conoco Chemicals — Hydrochloric acid                                | Feb    | 29    | 16 | DNA Plant Technology — Joint venture   | Apr        | -    | 30       | plant at Batavia, III   | Mar          | 14 | 24       |
|  | June   | 27    | 16 | with Koppers to develop diagnostic kits<br>for plant diseases R Feb 15-16,         | Feb        | 20   | 10       | Digital Equipment — Anaconda Advanced   | renta.       | 17 | 2.4      |
| U.S. oil supplies: A warning; crude oil imports will double by 2000 (chart)        | May    | 2     | 12 | DSM — Polyethylene fiber will be devel-  | reb        | 29   | 10       | Technology adapts CRISP software to   | luna         | 20 | 26       |
| VCM pricesN  | Feb    | 1     | 25 | DSM — Polyethylene fiber will be developed in joint effort with Toyobo N           | Mar        | 21   | 20       | DE's microcomputers N<br>Domopak — Purchased by Dow Chemi-                                    | June :       | 20 | 20       |
| Conrail — Another shipper/railroad brawl .<br>Framingham, Mass. hassle over VC in  | Feb    | 15    | 14 | Polypropylene: alleged European price fixing                                       | June       | 20   | 23       | cal Europe in 1983<br>Domtar Gypsum — Tapping the hidden                                      | Jan          | 4  | 17       |
| a railyard (map)   | Feb    |       | 14 | RIM system to make nylon 6 N   | Mar        | 21   | 78       | treasure in landfill gas: plant at San  |              |    |          |
| Who will get Conrail? 14 bids (table) Conroe Chemical — Quaker Chemical            | June   | 27    | 10 | van Liemt, Hans, will be new presi-<br>dent  | May        | 23   | 18       | Leandro, Calif  | June :       | 20 | 28       |
| completes acquisition  | June   | 20    | 23 | Damon Biotech — Biotech firms scramble   |            |      | 9        | Courting with more finesse (tables)   | Feb          | 15 | 34       |
| Consolidated Gas Supply — Filing for re-<br>duction in wholesale gas rates N       | Jan    | 18    | 9  | for new ways to raise cash   | May        | 23   | 9        | Dorsey — Sewell Plastics see under name   |              |    |          |
| Conculting Recourage — Chlor-alkali:   |        | -     |    | up: producing kilogram quantities for<br>purifying proteins and fighting disease   |            |      |          | Dow - Acquires Allied membrane pa-  |              |    |          |
| Squeezing earnings from a low-growth business (charts & table)                     | Feb    | 1     | 26 | (Encapcel process)   | Mar        | 28   | 28       | tents for chlor-alkali production N<br>Acrylamide monomer prices N                            | Jan<br>June  |    | 38<br>16 |
| Soda ash markets   | Feb    |       | 29 | Danskin — Esmark's acquisition by<br>Beatrice Foods: Whither Esmark's and          |            |      |          | Adhesive polymers, trademarked  |              |    |          |
| Swimming-pool chemicals markets (chart & table)                                    | Mar    | 7     | 10 | Beatrice's chemicals?  | May        | 30   | 13       | Adhesive polymers, trademarked<br>Primacor, introducedN<br>Agent Orange: U.S. Air Force study | Mar          | 21 | 9        |
| Consumers Power — Nuclear plant: new   |        |       |    | Dart & Kraft — Leveraged buyout of five<br>plastic specialties businesses by an    |            |      |          | supports many views in the Agent  |              |    |          |
| plan for a triple-hexed nuclear plant . N — Letter                                 | May    | e 27  | 9  | employee investor group  | Apr        | 18   | 12       | Orange case   | Mar          | 14 | 20       |
| Where did nuclear plants go wrong?   | June   | e 27  | 18 | Dart & Kraft Food Products — AlaCarte<br>line of retort-pouch-packaged dinner      |            |      |          | The Agent Orange surprise   | May          | 16 | 24       |
| Container Manufacturing — Nyalene bot-<br>tle made with Selar                      | Mar    | 14    | 50 | entrees  | Jan        | 18   | 26       | Tentative settlement: paymentsN<br>Apache Petroleum depositary units                          | May          | 23 | 4        |
| Continental — Motortech joint venture<br>Continental Can — CONOFFAST con-          | Feb    | 29    | 10 | Data Resources Inc. — The end-users re-<br>gain power in making prices (charts)    | Feb        | 29   | 6        | sold to Smith Barney N  | Jan          |    | 9        |
| tainers are sterilized with heat when  |        |       |    | Inventories: How companies are hold-   |            |      |          | Bromine prices N Buying into Morton Thiokol N   | June<br>Apr  |    | 16       |
| formed   | May    | 9     | 15 | ing down inventories (charts)  | Feb        | 8    | 28       | Capital spending shrinks, H&D budgets   |              |    |          |
| Continental Can see also Continental   | Jun    | e 27  | 5  | point  | Feb        |      | 3        | climb   | Mar          | 21 | 9<br>26  |
| Packaging  |        |       |    | Prime-rate hike dampens few hopes Davy McKee — New directions for engi-            | Apr        | 18   | 13       | CMA annual meeting consensus: 'Enjoy  |              |    |          |
| Continental Carbon — Chinese carbon black plant will use Continental proc-         |        |       |    | neering companies  | Apr        | 4    | 30       | 1984'   | June         |    | 16<br>35 |
| 988N   | May    | y 2   | 20 | Tissue-culture production processes Dayex — Silicon: Improving silicon for         | Jan        | 4    | 19       | Chlor-alkali prices   | Julie        | 0  | 33       |
| Continental Illinois National Bank & Trust — Suing Grace and Centex over 1980      |        |       |    | defense  | Feb        | 8    | 34       | or age at last? rexas study outlines a  |              |    |          |
| ioan to Grace for natural-gas projects   |        |       | _  | Dead Sea Bromine — A bold expansion  | Feb        |      | 01       | formula for establishing avoided costs (table)  | June         | 13 | 10       |
| in Mississippi   | Jun    | ie 27 | 7  | policy abroad pays off for ICL   | Feb        |      | 21<br>20 | costs (table)   | Feb          | 40 |          |
| (table)  | Apr    | 25    | 18 | Dead Sea Works - Israeli government  |            |      |          | DBCP victims settle suit  | Feb          | 4  | 20<br>15 |
| Continental Packaging — Acquisition of<br>interest in Altradec and Cobelplast will |        |       |    | approves plans for potash conveyor   | Fel        | 8    | 21       | Donalds, John E., former director of  | 0011         | -  |          |
| give company access to technology<br>for Menu Box                                  |        |       |    | Potash: World potash is moving again   |            |      |          | biotechnology, to be president and<br>chief executive officer of Collabora-                   |              |    |          |
| for Menu Box   | Jun    | 13    | 17 | (chart)  | ма         | r 14 | 36       | tive Research N   | May          | 16 | 11       |
| make aluminum food cans  | Apr    | r 11  | 23 | Chemical Div H   | Ma Ma      | r 14 | 24       | Donalds: Why Wall Street wants more   | Mar          | 7  | 22       |
| make aluminum food cans R<br>Continental Pharma — Monsanto makes                   |        |       |    | Denison Potacan — Potash project<br>Denka Chemical — Denki Kagaku gives            | Ma         | r 14 | 38       | biotechnology data  Dowell will be folded into Dowell Schlum-                                 | Mai          | ,  | 22       |
| acquisition R Jan 25-17, N<br>Continental Plastic Container — HDPE                 | Jai    | 25    | 57 | up on its U.S. plant; being purchased by   | 1          |      |          | berger, joint venture<br>Employee death while servicing a steel                               | Feb          | 29 | 8        |
| containers   | Ma     | r 14  | 50 | a group of its own employees N   | Ma         | r 21 | 9        | evaporator in a magnesium chloride  |              |    |          |
| Continental Resources — Cortez CO-<br>pipeline starts up                           | Jar    | n 4   | 20 | Denki Kagaku Kogyo — Polychloroprene<br>rubber dumped in U.S. says Commerce        |            |      |          | unit at Ludington, Mich. plant R  | Jan          | 18 | 18       |
| Cook Paint & Varnish — Pratt & Lambert   | 1      |       |    | Dept N<br>U.S. plant, Denka Chemical, being pur-                                   | l Fel      | 1    | 25       | EPA R&D: chemical majors joint push<br>for more funding N<br>EDB: Why the EDB health flap may | Apr          | 11 | 58       |
| buys a line of powder coatings N<br>Cooper Union — Desulfurizing petroleum         | i Fei  | b 8   | 9  | chased by a group of its own em-   |            |      |          | EDB: Why the EDB health flap may  | Eak          | 15 | 10       |
| coke<br>Cooperbiomedical — "Orphan drug"   |        | r 4   | 22 | ployees  | Ma         | r 21 | 9        | hurt bromine (chart)<br>Ethylene glycol: Massive restructuring                                |              | 13 |          |
| status granted to alpha-1 antitrypsin for  | r      |       |    | processors assess plant risk (diagram) .   | Fel        | 22   | 29       | in a 'crummy business' (charts)<br>Feedblock coextrusion patent suit with                     | Mar          | 7  | 32       |
| treating emphysema   | l Fe   | b 29  | 28 | De Soto — Architectural-coatings market<br>(chart)                                 | An         | 4    | 10       | Welex settled   | May          | 2  | 19       |
| come Foundation merge animal health  | ח      |       |    | Chattem's Petrochemicals subsidiary  | ,          |      |          | Glycol ethers: A coming ban on four   | Feb          | 8  | 13       |
| operations into new company F  | R Me   | ar 7  | 16 | to be acquired R Mar 21-18,  | l Ma       | y 30 | 17       | glycols? (table)  |              | 0  | 10       |
| Corning Glass Works — Fiber-optics pa<br>tent squabble with Sumitomo Electric      | Ap     | or 18 | 17 |  |            | 29   | 5        | low-till farming: the boom in post-<br>emergent herbicides (table)                            | May          | 9  | 12       |
| Genericor see under name<br>Corpcom Services — Investor relations                  | . Fe   |       |    | Deutsche Babcock Anlagen — Technology for refuse-fired power plants F              | Fe         | b 8  | 16       | Hydrochloric acid prices N  | June         | 27 | 16       |
| Corradini — Purchased by Dow Chemica   | d      |       |    | Deutsche Texaco — New route to sec   | -          |      |          | Lépetit diagnostics activities being<br>sold to Enichimica N                                  |              | 18 | 20       |
| Cosden Oil & Chemical — Acquiring  | . Ja   | n 4   | 17 | ondary butanol   | ) Jai      | 1 11 |          | Lepetit: Dow seeks full ownership of an   |              |    | 18       |
| Arco's polypropylene business  | N Ap   | or 4  | 9  | ethylene pricing   | Fe         | b 29 | 6        | Italian unitN   | May          | 30 | 10       |
|  |        |       |    |  |            |      |          |   |              |    |          |

| LPG to make ethylene: Algerian capa-<br>city may be a bonanza for Europe's                           |             |          |          | Agricultural research stations: record-<br>high outlay  | Apr  | 4        | 9        | Vespel polyimide parts plant planned for Japan N  | Mar 2      | 21   | 9        |
|--|-------------|----------|----------|---|------|----------|----------|---|------------|------|----------|
| petrochemical makers (chart)   | Jan         | 25       | 16       | Agricultural technology: help wanted N<br>Antiknock pricing practices upheld in                               | Feb  | 1        | 30       | cury contamination of South River   |            |      |          |
| Louisiana cogeneration operations: negotiations with GSU   | Feb         | 8        | 12       | court   | Mar  | 7        | 9        | and South Fork of the Shenandoah<br>River   | Apr        | 11   | 23       |
| Magnesium production increased due<br>to growth in automotive applica-                               |             |          |          | TorayN  | May  | 23       | 18       | Wastewater-treatment services, En-<br>vironmental Services Group: first   |            |      |          |
| tions  | Mar         | 14       | 24       | Argentine investment plans unveiled. N<br>Automobile windshields: antilacerative                              |      | 25       | 25       | step in a nationwide network of   |            |      |          |
| crack — Viewpoint  | Feb         | 29       | 3        | coatings come a step closer N<br>Can-coating operations sold to Mobil   | May  | 23       | 25       | waste treatment facilities  | June       | 13   | 11       |
| ket for chemicals and hardware   |             |          |          | Chemical; debt trimmed N<br>Chemical vapor deposition: AAAS sym-  | Jan  | 11       | 9        | Winners and losers in the coming crisis (map, tables, charts)   | Feb        | 22   | 34       |
| (table)  | Feb         | 29       | 30       | posium  | June | 6        | 34       | Du Pont Canada — Production technol-  |            |      |          |
| be supplied to EPA ending three-year dispute   | Apr         | 4        | 40       | Colored pigments: three lines sold, a fourth abandoned  | Jan  | 4        | 11       | ogy for Enichimica polyethylene plant. N<br>Sales and earnings; first-quarter '84'. N                             | Feb<br>May | 9    | 16<br>25 |
| NRDC pesticides report: Witt com-  |             |          |          | Ciba-Geigy completes pigments pur-  |      | 2        | 18       | Dynachem Italia — Formed to buy B.C.<br>Equipment and CGS Prodotti Chimici. R                                     | Feb        | 22   | 18       |
| ments (table)  | Mar         | 28       | 16*      | chase   | May  | 20       | 5        | Dynamac — Grey comments on bromine in flame retardants  | Feb        |      | 10       |
| epidemic triggered by pictoram, in-<br>gredient in Tordon herbicide R                                | June        | 27       | 15       | Commodities from biomass  | Apr  | 18       | 36<br>13 | Dynamit Nobel — Kay-Fries Chemical  | 160        | 13   | 10       |
| Paper recovery: caustic soda sales to<br>the paper industry increase                                 | Mar         |          | 10       | Common stock drops.  Contract to supply AT Technology with nearly 100% of the dry-film                        |      |          |          | see under name<br>Dyno Industrier — Gulf Resources' indus-  |            |      |          |
| Patent office validated Forest Labs' pa-   | Mai         | 21       | 10       | prioto-polymers it needs to make  | May  | 2        | 9        | trial explosives unit to be bought N  | Apr        | 25   | 11       |
| tent for Synchron technology for the<br>controlled release of drugs R                                | Jan         | 11       | 16       | printed-circuit boards  | May  | 2        |          | _   |            |      |          |
| Pipe and fittings products prices N Polystyrene prices   | Feb         | 8        | 24<br>38 | ing products with bogus trademarks<br>Electronic imaging: obtains rights to                                   | May  | 2        | 16       | E   |            |      |          |
| Polystyrene prices N<br>Prices: ethylene glycol, carbon tetra-                                       |             |          | -        | Savin's Landa electrostatic technol-<br>ogy N   | Mar  | 28       | 9        |   |            |      |          |
| chloride, sodium hydrosulfide, ethyl-<br>ene oxide, glycerine N                                      | June        | 20       | 60       | EPA R&D: chemical majors join push  |      |          |          | EG&G Automotive Research — Lubri-<br>cant testing agreement with Chevron  |            |      |          |
| Radiation ruling precedent: Colorado<br>ruling in Rocky Flats Nuclear Wea-                           |             |          |          | for more funding N<br>Heat-transfer salt trademark rights sold  | Apr  |          | 58       | Chemical  | May        | 2    | 19       |
| pons Plant case  | May<br>Jan  |          | 22       | to Olin   | Jan  | 4        | 15       | business to be acquired by UC   | Mar        | 21   | 13       |
| Research into composites expanded at   |             |          |          | mercializedR<br>Herbicides follow the current trend to  | Mar  | 28       | 19       | EPPCO — Citrus-oil based spray and<br>shampoo for horses, cattle, dogs and  |            |      |          |
| applications lab at Freeport, TexN<br>Resins for business machines: poly-                            | June        |          | 26       | low-till farming: the boom in post-<br>emergent herbicides (table)  |      |          |          | cats  | June       | 27   | 20       |
| carbonates, ABS  | May         | 16       | 44       | Heubach completes purchase of azo   | May  |          | 12       | ment, IsoPlus: Helping cows make  |            | 40   | 4.4      |
| boughtN  | Apr<br>June | 25       | 25<br>50 | and chromate pigments operations R<br>Information systems: Decentralizing in-                                 | Feb  | 15       | 16       | more milk   | Apr        | 18   | 11       |
| Styrene-butadiene latex prices N   | May         | 9        | 60       | formation systems (charts) Inventories: How companies are hold-   | May  | 23       | 26       | glycols? (table)  | Feb        | 8    | 13       |
| Styrene monomers: A crucial time for<br>'high-tech' styrene (charts)                                 | June        | 6        | 20       | ing down inventories (charts)   | Feb  | 8        | 28       | for chemicals and hardware (table) .<br>Economist Intelligence Unit — OPEC na-                                    | Feb        | 29   | 30       |
| Styrofoam insulation plant at Gales<br>Ferry, Conn. gets capacity increase . R                       | Feb         |          | 12       | Iran settles over expropriation of Poly-<br>acryl Iran  | Jan  | 11       | 16       | tural gas use study: "World Natural<br>Gas: What Role for OPEC?"  |            |      |          |
| Telone II pesticide, EDB replacement,  |             |          |          | Japanese deals: ethylene copolymer<br>capacity expansion at Otake; sells                                      |      |          |          | Econoscope Group — Chemical and   | Feb        | 22   | 20       |
| goes off the market N Mar 7-9, Telone-brand products to be boosted                                   | Apr         | 4        | 14       | technology and marketing informa-   |      |          |          | related industries will post good growth in 1984  | Feb        | 22   | 28       |
| to capitalize on EDB ban N<br>Ultrasonic processing  | May         | 18       | 9        | tion for copper pigment products to<br>Toyo Ink Manufacturing   | Apr  | 11       | 24       | Econoviews International — Karfunkle  |            |      |          |
| VCM prices N Feb 1-25, N May 16-51, N Warwick Chemical selected as a prim-                           | May         | 30       | 24       | Jefferson at CMA annual meeting<br>Kevlar aramid fiber: Airline safety's                                      | June | 13       | 16       | forecast for textile mill activity<br>Electric Power Research Institute — Al-                                     | Mar        | 28   | 12       |
| ary distributor of chlorinated poly-   |             |          |          | boost for fibers  | Feb  | 15       | 13       | ternatives to animals in tests for safe-  | Apr        | 4    | 34       |
| ethylene elastomers  | May         | 2        | 19       | Kevlar fiber in passenger tires N   | June |          | 9        | Funding GE work on vibration monitor to detect turbine flaws N  | May        |      | 33       |
| tabawassee River: Michigan's DNR<br>'asking the impossible' in water                                 |             |          |          | Leaded fuel phaseout: comments Maintenance painting program (chart).  | Mar  | 14       | 19<br>48 | Electricite de France — Impasse on elec-  |            |      |          |
| purity   | Apr         | 18<br>25 | 9        | Maintenance painting program (chart).<br>McAndrews, John P., group v-p for<br>F&FP Dept.: Du Pont's McAndrews |      |          |          | tricity rates in France N Electrochem — Methane purification  | June       |      | 20       |
| Write-offs on chlor-alkali plant at Mid-   | Apr         | 20       | 10       | expects a lot   | Mar  | 28<br>25 | 44<br>29 | plant will use Sulzer Bros. technology N<br>Electrolyser — Canadian hydrogen pro-                                 | Jan        | 25   | 19       |
| land, Mich., ethylene unit at Free-<br>port, Tex. and ethylene oxide-glycol                          |             |          |          | Medical assay kits for physicians to  | Jan  | 20       | 23       | ject uncertain  | May        | 16   | 29       |
| facility near Sarnia, Ont N<br>Zetabon plastic-clad metals plant at                                  | Feb         | 22       | 9        | use in prescribing treatment for wo-<br>men with breast cancer  | Feb  | 15       | 16       | nydropower  | May        | 23   | 22       |
| Findlay, O. to be upgraded R<br>Dow Chemical Europe — Acquires Seger                                 | Feb         | 22       | 18       | Medical diagnostics: Hot and tough to<br>crack — Viewpoint  | Feb  | 29       | 3        | Elf Aquitaine — Atochem see under name<br>Carbon fibers: Pechiney teams up with                                   |            |      |          |
| and Hoffmann N   | June        | 6        | 18       | Medical diagnostics. A red-hot mar-<br>ket for chemicals and hardware   |      |          |          | France slows capital investment in  | Apr        | 18   | 28       |
| Corradini and Domopak purchased in<br>1983   | Jan         | 4        | 17       | (table)   | Feb  | 29       | 30       | chemicalsN<br>U.S. holding company of M&T — Cor-  | Mar        | 14   | 28       |
| Dow Chemical Iberica — ERT turns down<br>acquisition offer for LDPE plant N                          | Feb         | В        | 17       | Membrane patent agreement with<br>Asahi   | May  | 9        | 33       | rection   | Feb        | 22   | 5        |
| LDPE operations to be bought N<br>Plant sale plan stalled N  | Apr<br>June | 25       | 25<br>50 | Asahi N "Monece", new fine denier fabric: Fibers had a good first quarter                                     | Mar  | 28       | 12       | acids prices N  | Apr        | 4    | 26       |
| Dow Chemical U.S.A. — Chlor-alkali:  | odno        | 20       | 00       | Ocean shippers get antitrust immunity.  | Mar  |          | 21       | Fatty-acids expansion at Cincinnati, O. onstream  | Mar        | 28   | 9        |
| Squeezing earnings from a low-growth business (charts & table)                                       | Feb         | 1        | 26       | Optical-disk technology joint venture<br>with Storage Technology: Du Pont                                     |      | 10       |          | Fatty acids prices N Feb 8-24, N<br>Emerson Electric — SmithKline Beckman's                                       | Apr        | 25   | 57       |
| Prices rise for several chlorinated itemsN   | Mar         | 14       | 34       | buys the right to use the technology N<br>Ordered polymers research   | June |          | 9<br>35  | industrial businesses to be purchased. N  | Jan        | 18   | 9        |
| items  | Mar         | 21       | 71       | Patent infringement suit against Toho<br>and Nihon over pigment colors still                                  |      |          |          | Empresa Nacional de Fertilizantes —<br>Abonas del Noroeste's other 50% to be                                      |            |      |          |
| ODC joint venture reorganized as a   |             |          |          | pending   | June | 6        | 17       | bought  | Apr        | 25   | 25       |
| wholly owned subsidiary R<br>Sales and earnings: first-quarter N                                     | May<br>Apr  | 18       | 17       | Pension accounting in dispute: FASB's proposal called "conceptually un-                                       |      |          |          | turns down acquisition offer for LDPE plantN  | Feb        | 8    | 17       |
| Shin-Etsu Handotai will be partner in<br>Hemlock Semiconductor subsidiary R                          | Mar         | 7        | 16       | proposal called "conceptually un-<br>sound"   | Jan  | 18       | 13       | I DPF operations to be bought N   | Apr        | 25   | 25       |
| Dow Hellas — Plant to make extruded<br>polystyrene foam to be built at Lav/ion                       |             |          |          | Photochemicals' new image: Du Pont<br>and Hercules will push electrostatics                                   |      |          |          | Plant sale plan stalled N Emser Industries — Resin compounding operations at Sumter, S.C. plant R                 | June       | 20   | 50       |
| site   | June        | 6        | 18       | beyond photocopiers   | Apr  | 4        | 11       | operations at Sumter, S.C. plant R<br>Energy Planning — Natural gas prices:                                       | Mar        | 7    | 16       |
| Dow Syngas — Coal gasification project in Louisiana: SFC readies price and                           |             |          |          | Plastic packaging materials   | Jan  | 18       | 25       | lower fuel and feedstock costs N<br>Energy Sciences — Electron beam sys-  | Jan        | 18   | 9        |
| loan supports N<br>Dowd, R.M. & Co. — Dowd comments on   | Apr         | 11       | 58       | Selar concentrate for bottles and containers  | Mar  | 14       | 50       | tem sold to Shanghai Electrical Ma-   |            | _    |          |
| EPA's research budget (chart)  | Apr         | 4        | 27       | PVB sheeting for auto windshields: capacity boostN  |      |          | 11       | chinery   | May        | 9    | 33       |
| Dowell — Folding Dowell into Dowell Schlumberger   | Feb         | 29       | 8        | Prices on nine products, including  | May  |          |          | censed to burn PCBs   | June       | 20   | 39       |
| company in its move into the U.S N   | Mar         | 28       | 22       | methanol and formaidehyde N Products that use monoclonals   | June | 28       | 24<br>28 | market  | Mar        | 21   | 13       |
| Dr. Dvorkovitz & Associates - Confer-  |             |          |          | Protein engineering: comments from<br>Pensak  | Mar  | 21       | 80       | Japanese Patent Office grants patent<br>for duto exhaust catalysts R  | Feb        | 1    | 17       |
| ences: Making a university/industry match.   | Feb         | 15       | 20       | The recent freeze takes its toll  | Jan  |          | 11       | for duto exhaust catalysts R<br>English China Clays — Katalistics' fluid<br>cracking catalysts business to be ac- |            |      |          |
| Ducilo — Du Pont unveils investment<br>plans in Argentina N<br>Duolite International — Rohm and Haas | Apr         | 25       | 25       | Reeder comments on 1984-85 expansions.  Rynite SST, thermoplastic polyester,                                  | Feb  | 1        | 10       | quired by UC  | Mar        | 21   | 13       |
| Duolite International — Rohm and Haas<br>buys ion-exchange resin plantR                              | June        |          | 17       | for autos   | Mar  | 7        | 13       | from SABIC; company exploring build-  |            |      |          |
| Du Pont — Acetal resin market: action  |             |          |          | Safer system for tracking toxic fumes used in Deepwater, N.J.   | Mar  |          | 36       | ing petrochemical projects in Saudi<br>Arabia   | June       | 9 27 | 90       |
| heats up   | Mar         | -        | 24       | Toyo ink modifying plant to use Du  | Mai  | ,        | 30       | Arabia  | Jan        |      | 20       |
| Agricultural research: two new agricul-  | May         |          | 21       | Pont technique for producing pig-<br>mentN  | May  |          | 20       | Polyethylene plant to be built at Sicilian  | Feb        |      | 16       |
| tural research stations unveiled R   | Mar         | 28       | 19       | Ultrasonic processing   | Jan  | 18       | 29       | Priolo complexN   | LAD        | 29   | 10       |

| Enichimica Secondaria — Recordati pur-<br>chased; looking to increase interest in<br>Brichima   | Jan        | 4    | 17       | Natural gas-processing plant to be built<br>at La Barge, Wyo   | June 6           | 9        | Fosforico Espanol — Instituto Nacional de Industrial expected to pick up 25%       | Apr 25           |     | 25       |
|---|------------|------|----------|--|------------------|----------|--|------------------|-----|----------|
| Enka — Carbon-fiber facility planned N  | Feb 3      |      | 16       | Tex  | Mar 7            | 16       | Foster Wheeler Energy — Equity position  |                  |     |          |
| Enstar — Unimar, Allied and Ultramar<br>partnership, bid for acquisition of                     |            |      |          | town, Tex. N Polypropylene prices N  | Feb 15           | 25       | Fluidized-bed boilers  | Jan 4<br>June 20 |     | 28<br>44 |
| ENI — Montedison would transfer inter-  | May :      |      | 9        |  | Apr 11<br>Feb 29 | 38<br>6  | Pharmaceutical plant award from Ciba-<br>Geigy                                     | May 30           | ) . | 17       |
| mediates unit   | Apr<br>Apr |      | 18       | Xylene prices  | Jan 4            | 20       | Pulls out of Santa Rosa tar sands project  | Jan 4            |     | 44       |
| Environmental Health Research and Test-<br>ing — Lamb's test for reproductive                   | . 4.       |      | -        |  | Apr. 11          | 11       | ect N<br>Foxboro — Process control: Where hard-<br>ware and software clash         |                  |     |          |
| effects of chemicals to get three-vr  |            |      |          | Mass N<br>Exxon Nuclear — For uranium producers,   | Apr 11           |          | Freeport Sulfur — Agrico Chemical's use of dry sulfur at South Pierce, Fla. com-   | Jan 25           | ,   | 20       |
| validation test<br>Environmental Research and Technology  | Feb        | 15   | 29       | far-off silver linings (chart)   | Apr 1            | 12       | of dry sulfur at South Pierce, Fla. com-<br>plex being protested                   | Feb 22           | 2   | 12       |
| <ul> <li>Computers on the track of toxic</li> </ul>   | Mar        | 7    | 36       | _  |                  |          | Fuel Tech — International Power Chemi-<br>cals to be acquired from Rolfite R       | May 16           |     | 24       |
| fumes Environmental Systems — McKesson may acquire a controlling interest N                     |            |      | 9        | F  |                  |          | Fuji Life Science — JGC Corp. to buy 50% share N                                   |                  |     |          |
| Erca — Licenses CONOFFAST technol-  | Apr        | 4    |          |  |                  |          | Fuji Photo — Medical diagnostics: doc-   | Jan 25           |     | 57       |
| ogy to Continental Can  | May        | 9    | 15       | FMC — Chemical water. Winners and<br>losers in the coming crisis (map, tables,                                       |                  |          | chemistry analyzers Fuller, H.B. — First-quarter report: rising                    | Feb 29           | 9   | 32       |
| turing in a 'crummy business' (charts) . Frost & Whinney — Cogeneration: Texas                  | Mar        | 7    | 32       | charts)  | Feb 22           | 34       | sales and two writeoffs — MultiClean business and loss of assets in Leban-         |                  |     |          |
| Ernst & Whinney — Cogeneration: Texas outlines a formula for establishing avoided costs (table) | lumm       | 10   | 10       | Formcoke capacity expansion at Kem-<br>merer, Wyo  | Feb 29           | 12       | ese war zone N<br>Foster Div.: Asbestos containment — a                            | Apr 11           | 1   | 11       |
| Pension accounting in dispute: FASB's proposal called "conceptually un-                         | June       | 13   | 10       | Hydrogen peroxide plant planned in<br>Canada   | Apr 11           | 24       | controversial alternative  | June 20          | 0   | 33       |
| proposal called "conceptually un-<br>sound"   | Jan        | 18   | 13       | Lithium Co. of America acquisition rumor denied N  |                  | 11       | Industrial Coatings Div. buys building in<br>northern St. Paul, Minn. as new       |                  |     |          |
| Plastics resins consumption N<br>Plastics volume scored major 1983                              |            | 18   | 28       | Soda ash prices N  | June 20          | 60       | home for operations  | Mar 2            | 1   | 19       |
| gainsN  | Feb        |      | 25       | Soybean oil, epoxidized, prices N<br>Swimming-pool chemicals: Chemical   | May 2            | 31       | •  |                  |     |          |
| Eschem — Esmark leveraged buyout puts   | Mar        |      | 34       | makers play hard-nosed polo in the pool (chart & table)  | Mar 7            | 10       | G  |                  |     |          |
| Estech buyout on hold N<br>Esco — Investments in analytical equip-                              | May        | 16   | 11       | Water worries delay a trong project in   | Jan 25           | 9        | CAE Apphilana shaminal salasa N  | t 0              |     | 04       |
| ment  | June       | 6    | 17       | Wyoming  | Jan 25           | 9        | GAF — Acetylene chemical prices N<br>GAF's plan: record-high profits and a         | Jan 2            |     | 24       |
| Whither Esmark's and Beatrice's chem-   |            |      |          | pany be supported by com-  | Feb 1            | 14       | big write-off  | Jan 1            | 1   | 9        |
| icals?  | May        | 30   | 13       | Fairchild Burns — Fire-blocking seat covers  | Feb 15           | 14       | docket N<br>Hair-care mousses: a boost for chemi-                                  | Apr -            | 4   | 9        |
| possible  | Feb        | 29   | 9        | Farm Service Co-op — Schmidt's fertil-   |                  |          | cals   | Mar 2            | 1   | 71       |
| acquisition offer for Esmark, in-   | Mari       | 0    |          | izer forecast at FI meeting  | Feb 22           | 10       | Headquarters will be moved from New<br>York City to New Jersey N                   | Mar              | 7   | 9        |
| cluding Norton Simon and Estech N<br>Leveraged buyout puts Estech on                            | May        |      | 11       | ings 1983  | Apr 25           | 25       | Heyman chooses Shea as company's<br>senior v-p. general counsel and                |                  |     |          |
| hold N<br>Essex Chemical — Custom drug houses:  | May        | 16   | 11       | case: four men ask court to overturn their conviction  | Mar 28           | 19       | secretary N<br>Heyman wows 'em at GAF  | June 2           |     | 7        |
| The new entries   | May        | 9    | 46       | Merger with Missouri Farmers Assn.   | Mai 20           | 19       | Snerman, Murray S. moves to Genex as   | May 1            |     | 18       |
| Polyurethane sealants for windshield<br>applications: UV may lower cure times                   | Mar        | 28   | 11       | considered as a means of restoring financial stability N   | June 13          | 9        | v-p for manufacturing operations .<br>Werner's employment contract: GAF            | May :            | 2   | 38       |
| Esso Chemicals — Norsk Hydro and<br>Neste offer to buy ethylene-plant at                        |            |      |          | financial stability  | Feb 22           | 10       | moves to puncture Werner's 'golden   | Feb 1            | 8   | 9        |
| Stenungsund; Statoil offers to become 50% partner in the Esso unit N                            | Mar        | 7    | 19       | Ferguson, H.K. — New directions for en-  |                  | 30       | Galeco — Funding for sensor research<br>Gardinier — Ecology hassle may close       | Mar 1            |     | 30       |
| Esso Chimie — Sales and earnings: ex-   |            |      | 20       | gineering companies  Fertimont — Ammonia plant at Ferrara  |                  |          | phosphate plant at East Tampa, Fla. N  | Feb 1            | 5   | 9        |
| ports are the key to profits N<br>Esso Resources Canada — Ethane ex-                            | Mar        | 21   | 20       | to be reopened N Fiat — Lead-free gasoline controversy . N   | Jan 25<br>June 6 | 57<br>18 | Florida compromise plan approves<br>second gypsum dump site                        | June 2           | 0   | 18       |
| traction plant planned as part of en-<br>hanced oil recovery program in Al-                     |            |      |          | Fiberlux Products — Acquired by Ethyl R  | June 6<br>Apr 25 | 17       | Florida county commission moves to<br>deny rezoning request to build new           |                  |     |          |
| berta N<br>Oil-extraction project near Cold Lake,   | May        | 30   | 18       | Fibreboard — Asbestos fund (table).<br>Financial Accounting Standards Board —<br>How stocks and R&D partnerships can |                  | ,,,      | stack near Lampa, Fla. complex H   | Feb 2            | 9   | 12       |
| Alta. scaled down: Canada's syn-  | C-4        | 00   | 40       | interrelate  | Mar 28           | 33       | Florida pushes EPA on gypsum-byprod-<br>uct safety N                               | Jan 2            | 5   | 80       |
| fuels — a cautious phoenix  | Feb        | 22   | 40       | Find/SVP — Metallic superalloys demand to grow   | May 2            | 31       | Phosphogypsum wastes: funding re-<br>search for use as a road base and a           |                  |     |          |
| Algerian capacity may be a bonanza for<br>Europe's petrochemical makers (chart)                 | Jan        | 25   | 16       | Fine Chemicals — ChemDesign: 'Buy<br>American'   | Mar 21           | 14       | construction material  | Apr 2            | 5   | 52       |
| Estech — Esmark puts Estech up for sale: leveraged buyout possible                              | Feb        |      | 9        | Fireman's Fund — Asbestos fund (table) .<br>Firestone Tire and Rubber — Firestone                                    | Apr 25           | 18       | by McKesson N<br>Gasunie — EEC fertilizer makers squab-                            | Feb              | 1   | 9        |
| Kohlberg, Kravis & Roberts makes  | 100        | 20   | 0        | Foam Products to be sold to Foam   |                  |          | bles: Dutch competition is still "unfair". Gaz de France — Fertilizer producers in | June 1           | 6   | 16       |
| acquisition offer for Esmark, in-<br>cluding Estech; Esmark selling                             |            |      |          | Acquisition  | May 9            | 22       | France offered a break on natural gas  |                  |     |          |
| some operations in leveraged buy-<br>outN   | May        | 9    | 11       | from 'wild' plants<br>First Chemical — N-ethylaniline pro-   | May 16           | 30       | rates  | June 1:          | 3   | 20       |
| Femark's leveraged buyout outs  | May        |      | 11       | duced at Pascagoula Miss R   | Apr 11           | 23       | ates products group  | May 3            | 0   | 17       |
| Estech buyout on hold N<br>Florida Duette phosphate mine offered                                | ividy      | 10   |          | First Interstate Trading Co — McCauley comments on Ashland's distribution  | 4 44             | 00       | customize proteins   | Mar 2            | 11  | 79       |
| for sale to the Manatee County Com-<br>mission  | May        | 23   | 10       | business<br>First Mississippi — First Chemical see   | Apr 11           | 26       | Genentech — Biogen patent on alpha<br>interferons to be protested N                | Feb 2            | 9   | 5        |
| Florida phosphate project; Manatee<br>County will allow access to docu-                         |            |      |          | under name<br>Fisher — Provox: Process control —   |                  |          | Developing a selective anticancer agent called lymphotoxin N                       | June 1           | 3   | 34       |
| ments which concern quest for per-  | Jan        | O.E. | 9        | Where hardware and software clash  | Jan 25           | 20       | Factor VIII: Hevion patent suit  | Jan 1            |     | 24       |
| mitsN<br>Phosphate mine, Silver City, getting   |            | 25   |          | Fisons — Acquisitions in the U.S.: acquires Curtin Matheson Scientific and   |                  |          | Factor VIII race: Genentech uses r-DNA to make a blood-clotting protein            | May              | 9   | 17       |
| ready to resume production N<br>Ethyl — Acquires Fiberlux Products,                             | Feb        | 1    | 9        | Schmed International from Coulter Elec-<br>tronics   | Feb 22           |          | Genencor see under name<br>Making new ventures go (chart)                          | Apr 1            | 1   | 44       |
| Westchester Window and Fiberlux R<br>Antiknock pricing practices upheld in                      | June       | 6    | 17       | Buys United Diagnostics N<br>Sales and earnings 1983 N   | Apr 18<br>Mar 14 | 28<br>28 | Medical diagnostics: joint venture<br>Travenol-Genentech Diagnostics               | Feb 2            | 9   | 31       |
| court   | May        | 7    | 9        | Florida Drum — HDPE drum technology licensed from Mauser-Werke   |                  |          | Triple play: tests of gamma interferon,  |                  | 4   | 12       |
| tween lead exposure and lowered   |            |      |          | Florida Power & Light — Nuclear plant  | Mar 14           |          | a marketing deal, and a joint venture.<br>General Analysis — Analyzing a multi-    | Jan -            | 4   | 13       |
| intelligence has not been soundly proved  | Mar        | 14   | 19       | Foam Acquisition — Firestone Foam  | June 27          |          | component liquid stream N<br>General Atomic — UNC Resources court                  | Mar 2            | .8  | 33       |
| Decabromodiphenyl oxide prices N<br>EDB: Why the EDB health flap may                            | June       |      | 16       | Products to be acquired  | May 9            | 22       | settlement: GA will assume UNC's obligation to repay uranium to a utility          |                  |     |          |
| hurt bromine (chart)  | Feb        | 15   | 10       | prices :   | Feb 1            | 25       | companyN   | June             | 6   | 9        |
| Flame retardants expansion in Sayre-<br>ville, N.J  | Apr        |      | 23       | auto makers' moves could cut chemi-  | 6-               |          | General Chemicals — Quaker Chemical completes acquisition                          | June 2           | 20  | 23       |
| Ibuprofen capacity expansionR Ibuprofen's contested road over the                               | May        |      | 17       | cal supply lines   | Jan 18<br>Mar 7  |          | General Electric — Automotive plastics . "Continuous metal-extraction proc-        | Mar              |     | 13       |
| counter   | June       | 6    | 12       | Parker Chemical see under name<br>Forest Laboratories — Patent for Syn-  |                  |          | ess"N<br>Hiner, Glen H., v-p and group executive                                   | June 2           | 27  | 96       |
| IMCO Container business to be sold to<br>Brockway N   | Mar        | 7    | 9        | chron technology for the controlled  | la-              | 40       | of Plastics Group: GE's plastics chief   | Mari             | 0   | E7       |
| Organo-lead antiknock agents: EPA's<br>proposed rule may mean an earlier                        |            |      |          | release of drugs validated   | Jan 11           | 16       | has a winner's drive   | May<br>May 3     | 30  | 57<br>17 |
| demise for Ethyl's biggest business . N<br>Sodium and calcium bromide powders                   | Mar        | 7    | 9        | Systems: Computers on the track of toxic fumes   | Mar 7            | 36       | Polycarbonates expansion in Mt.<br>Vernon, Ind. and Bergen op Zoom,                |                  |     |          |
| plant in Magnolia, Ark  | Mar        | 28   | 19       | Formica Brand Products Group - Ameri-  |                  | 00       | Netherlands  | Mar 1<br>Jan     | 14  | 24<br>29 |
| Study on the effects of inhaling methyl bromide   | Apr        | 4    | 14       | can Cyanamid parting company with<br>Formica   | May 16           | 16       | PCBs get a good report N<br>Sales and earnings: first-quarter N                    | Apr 1            |     | 9        |
| Exxon — Aromatics prices N<br>Benzene prices N  | Mar        | 14   | 34<br>25 | Formosa Plastics — Goodrich sues to<br>protect its PVC technology N Mar 7-9,   | Apr 4            | 25       | Silicone polyimide dielectric coating<br>technology being commercialized . A       | Mar              | 7   | 16       |
| Soliton privos.   | . 00       |      |          | ,  |                  |          | -  |                  |     |          |

| Sol-gel processing: AAAS symposium   | June       | 6         | 34       | Gorham International — Asbestos con-  |            |      |          | Haber — Haber Gold Process: Staking a  |            |                |          |
|--|------------|-----------|----------|---|------------|------|----------|--|------------|----------------|----------|
| Strategic planning conference: How the experts plan strategy (table)                   | Mar :      | 28        | 11       | sumption in U.S. is largest market for<br>Canadian asbestos   | Feb        | 22   | 14       | claim on a gold-winning process Halcon SD — EG: syngas routes to EG Haldor-Topsoe — New directions for en- | Feb<br>Mar | 7              | 35       |
| Vibration monitor to detect turbine  |            |           | 00       | Grace, W.R. — Agreement with Synergen   |            |      |          | Haldor-Topsoe — New directions for en-<br>gineering companies  | Anr        | 4              | 30       |
| flaws being developed N<br>Wafer coating, key to new chip tech-                        | May        | 9         | 33       | to develop microorganisms that make<br>flavors and fragrances   | May        | 2    | 37       | Harms, Mike Associates — Oil's lure for  | Apr        |                |          |
| nology   | June       | 6         | 17       | Bonny Lake phosphate mine in Florida<br>to close; draglines will be moved to                              |            |      |          | urethane makers Harshaw Chemical — Kaiser's game plan  | Apr        | 25             | 16       |
| antilacerative coatingsN   | May :      | 23        | 25       | Hooker's Prairie and Four Corners   |            |      |          | to get Harshaw back in shape   | Feb        | 8              | 22       |
| Automotive adhesives for all-plastic<br>bodies of Corvettes and Fieros                 | Mar :      | 28        | 10       | mines N<br>Capital spending for 1984 beefed up by   | Feb        | 1    | 9        | Harshaw-Filtrol Partnership — Fluid<br>cracking catalysts market   | Mar        | 21             | 13       |
| Automotive plastics  | Mar        | 7         | 13       | 20% N   | May        | 23   | 4        | Hartford Insurance — Asbestos fund   | A          | 05             |          |
| Small cars segment will be based in<br>Canada: auto makers' moves could                |            |           |          | Continental Illinois National Bank &<br>Trust suing Grace and Contex over                                 |            |      |          | (table)  | Apr        | 25             | 18       |
| cut chemical supply lines N  | Jan        | 18        | 9        | 1980 loan to Grace for natural-gas  | June       | 22   | 7        | plastic color concentrates business to<br>be bought  | Jan        | 10             | 0        |
| General Tire & Rubber — Aerojet Strategic<br>Propulsion: A chemical push from the      |            |           |          | projects in Mississippi N<br>Florida phosphate land swap likely   | May        | 23   | 10       | Hawkeye Chemical — Getty's chemical  | Jan        | 10             | 9        |
| MX   | Apr        | 4         | 12       | Fluid cracking catalysts market Funding MIT work to genetically engi-                                     | Mar        | 21   | 13       | units may go on the auction block N  | Jan        | 11             | 9        |
| General Tire & Rubber see Gencorp<br>Genetic Systems — Medical diagnostics:            |            |           |          | neer microorganismsN  | Apr        | 11   | 30       | Texaco's bid for Getty: Whither Getty's<br>chemicals? (chart)  | Jan        | 18             | 11       |
| monocional antibodies in tests   | Feb        | 29        | 34       | Grace, J. Peter's commission Presi-<br>dent's Private Sector Survey on Cost                               |            |      |          | Hays Group — Acquires BP Chemicals'<br>Sandbach Div., chlor-alkali operation. N                            | Mar        |                | 20       |
| ment that the company has purified a   |            |           |          | Control: Going after \$142 billion -  |            |      |          | Hazardous Waste Technology Services  — TAGA used to identify "hot spots"                                   | LAHGE      | 21             | 20       |
| piece of the human factor VIII gene<br>Factor VIII race                                | Jan<br>May | 11        | 17       | Viewpoint Strong medicine for curbing federal   | Jan        | 25   | 3        | TAGA used to identify "hot spots" at suspected dioxin site   | May        | 30             | 36       |
| Genex — Center for Advanced Research   | reidy      | 9         | **       | costs   | Jan        | 25   | 14       | Health-Chem — Time Chemical subsidiary   | ividy      | 00             | 50       |
| in Biotechnology, CARB: new biotech<br>center allies diverse groups                    | Feb        | 22        | 16       | Industrial Chemicals Group realigns its<br>management team  | Mar        | 21   | 12       | to be bought by a group headed by president Drost  | Jan        | 11             | 9        |
| How genetic engineers will customize   |            |           |          | Joint venture with Cetus for bioengi-   |            |      |          | Health Industry Manufacturers Assn   |            |                |          |
| proteins Making new ventures go  | Mar        | 11        | 79<br>46 | neered farm products: 'Possibly the<br>largest' bioventure  | June       | 20   | 15       | Medical diagnostics: standards Heinz, H.J. — BioTechnica signs pact to                                     | Feb        | 29             | 34       |
| The management evolution at Genex:   |            |           |          | Metaramics acquired   | Mar        | 21   | 12       | develop animal-feed products R<br>Helene Curtis — Hair-care mousses: a                                     | Apr        | 11             | 23       |
| <ul> <li>J. Leslie Glick, chairman and CEO and Vito Esposito, president and</li> </ul> |            |           |          | Phosphate rock reserves in Florida to<br>be bought from Agrico Chemical;                                  |            |      |          | boost for chemicals  | Mar        | 21             | 71       |
| COO  | May        | 2         | 38       | Bartow, Fla. facilities to be im-<br>proved   | Feb        | 1    | 17       | Hernlock Semiconductor — Dow Corning   |            | -              |          |
| Gentronix — Molecular-computer re-<br>search   | Feb        | 8         | 19       | Phosphoric acid unit at Bartow, Fla.  | Lan        | ,    | 17       | accepts Shin-Etsu Handotai as a part-<br>ner   | Mar        | 7              | 16       |
| Georgia-Pacific — Chemicals strategy   |            |           | 9        | shut down   | Apr        | 18   | 9        | Hercules — Acquisition of Winston Tech-  |            |                |          |
| being reevaluated  | Mar        | 20        | 9        | tain units within its European Darex  |            |      |          | Aerospace Div.: A chemical push from   | Apr        | 4              | 11       |
| operation at Newark, N.J N   | Feb        | 15        | 9        | Div   | May        | 16   | 11       | the MX   | Apr        | 4              | 12       |
| EPS: Optimism outpaces overcapacity<br>(chart)   | Feb        | 29        | 18       | Purchase bid for Diamond Shamrock's<br>Metal Coatings and Process Chemi-                                  |            |      |          | Agent Orange case The Agent Orange surprise  | May        | 16             | 24       |
| Linde's methanol reactor will get a test<br>at Plaquemine, La. plant N                 | Jan        | 19        | 38       | cals divisions dropped N<br>Grant, Alexander — How manufacturers  | Jan        | 25   | 9        | Tentative settlement: payments N   | May        | 23             | 4        |
| Phenol capacity will be expanded when  | Jan        | 10        |          | rank the states: fifth annual study on  |            |      |          | Carbon fiber joint venture in France:<br>Hercules pulls out  | Apr        | 18             | 28       |
| Bound Brook, N.J. plant starts up . R<br>Georgia Power — Nuclear plant success         | Jan        | 4         | 15       | General Manufacturing Business Cli-<br>mates  | Apr        | 25   | 20       | Cogenerator/utility fuss over avoided costs  | Feb        | 8              | 12       |
| story  | June       | 27        | 19       | Great Lakes Biochemical - Laporte In-   |            |      |          | Common stock drops   | Apr        | 18             | 13       |
| Gerber Scientific Instrument — EOCOM<br>Electronic Systems Div. of American            |            |           |          | dustries acquisition  | Feb        | 1    | 20       | Graphite-fiber strategy: Full speed ahead  | Feb        | 29             | 5        |
| Hoechst to be acquired R   | May        | 2         | 18       | EDB health flap may hurt bromine  |            |      |          | Himont see under name  | 100        | 20             | 0        |
| Getty Oil — Leveraged buyout agreement<br>with Pennzoil: chemical units may go         |            |           |          | (chart)<br>Great Lakes Chemical. An aggressive  | Feb        | 15   | 10       | Inventories: computerized system called<br>Product Material Inventory                                      | Feb        | 8              | 30       |
| on the auction block N   | Jan        | 11        | 9        | growth plan pays off (charts)   | Mar        | 21   | 74       | Investor relations. Courting with more   |            |                |          |
| Microbial enhanced oil recovery Texaco acquisition bid: Whither Getty's                | Jan        | 25        | 58       | PPG will license brominated flame re-<br>tardant technology   | Mar        | 14   | 58       | finesse (tables)   | Feb        | 15             | 34       |
| chemicals? (chart) Texaco to sell Getty's Northeastern                                 | Jan        | 18        | 11       | Study on the effects of inhaling methyl   |            |      |          | Paper industry recovery increases sales of paper chemicals   | Mar        | 21             | 10       |
| and Middle Atlantic marketing activi-  |            |           |          | Syntex Chemicals' Newport, Tenn.  | Apr        | 4    | 14       | Photochemicals' new image: Du Pont<br>and Hercules will push electrostatics                                |            |                |          |
| ties, about 600 stations, to Power<br>Test   | Feb        | 8         | 16       | chemical production facility to be  | luna       | 07   | 45       | beyond photocopiers  | Apr        | 4              | 11       |
| Getty Solvents and Petrochemicals -  | 1 00       | 0         | 10       | Great Plains Gasification Assoc Coal  | June       | 21   | 15       | Polyacrylonitrile joint venture with<br>Sumitomo Chemical  | Feb        | 29             | 5        |
| Texaco's bid or Getty: Whither Getty's<br>chemicals? (chart)                           | Jan        | 18        | 11       | gasification: SFC readies price and loan supports   | Apr        | 11   | 58       | Polypropylene: alleged European price fixing   | June       | - 20           | 23       |
| Getty Synthetic Fuels — Landfill gas:  | ou.        |           |          | Greenwell, W. & Co Wamsley com-   | Apr        |      |          | Polypropylene joint venture with Mont-   | June       | 1 20           | 23       |
| Tapping the hidden treasure in landfill gas  | June       | 20        | 28       | ments on CdF Chimie   | Apr        | 18   | 30       | edison: largest foreign investment in<br>U.S. in 1983 N  | June       | 0 13           | 40       |
| Giannetti Studies - Synthetics for restor-   |            |           |          | Woodpecker damage to poles esti-  |            |      |          | Hershey — Water management institu-  |            |                |          |
| ing historic facades Gilbert/Commonwealth Associates — A                               | Apr        | 25        | 54       | mated by Hines  | Feb        | 22   | 32       | tionalized Heubach — Du Pont's colored pigments  | Feb        | 22             | 34       |
| new look at anthracite   | Jan        | И         | 29       | terest in Spanish glassmaker R  | Jan        | 18   | 18       | operation purchased  | Jan        | 4              | 11       |
| Glaxo Holdings — Sales and earnings:<br>first-half 1983-84 N                           | Apr        | 18        | 28       | Court rules Guardian infringed on a pa-<br>tent and used trade secrets of Johns-                          |            |      |          | Purchases azo and chromate pigments<br>operations from Du Pont   | Feb        | 15             | 16       |
| Glitsch — ICI's separation device to be  | June       | 20        | 26       | Manville in manufacture of fiberglass   | lan        |      | 45       | Heyward-Robinson — H <sub>2</sub> PO <sub>4</sub> makers look  |            |                |          |
| marketed N<br>Packing's growing role in distillation                                   |            |           |          | insulation  | Jan        | 4    | 15       | again at the hemihydrate route.  Hiltop Lab Animals — Breeding geneti-                                     | Mar        | 14             | 48       |
| (diagram) Glyco — Fatty-acid chemical prices N   | June       |           | 18<br>60 | comments from Osborne   | Mar        | 14   | 48       | cally pure lab animals   | June       | e 6            | 25       |
| Gnostic Concepts — Fiber-optics market   | Guire      | . 20      | 00       | 'moderate' precedent for wage hikes   |            |      |          | Himont — Polypropylene resin capacity<br>at Bayport, Tex. being replaced R                                 | June       | e 6            | 17       |
| surveys  | Apr        | 18        | 17       | in 1984   | Jan<br>Jan | 18   | 9        | Hirmont U.S.A. — Polypropylene resin prices  | lun        | 0 12           | 24       |
| Golden Gem Growers — Squeezing in-<br>secticides from oranges: tests on limo-          |            |           |          | Standard Oil of California merger: A  | Jan        |      |          | Hitachi — Medical diagnostics: auto-   | Jun        | e 13           | 24       |
| nene as an insecticide   | June       | 27        | 20       | merger for oil, not chemicals, (chart) Merger approved by Standard Oil of                                 | Mar        | 14   | 15       | matic blood serum analyzer  Hoechst — ERT's polyvinyl acetate facili-                                      | Feb        | 29             | 32       |
| Goldman, Sachs — Retained by Ashland   |            |           |          | Calif. stockholders; Socal must   |            |      |          | ties may be purchased N  | Jan        |                | 20       |
| to help sell Integon insurance subsidi-<br>ary   | June       | 9 6       | 17       | now sell off one of its refineries . N<br>Tibbetts: styrene exports fall                                  | June       |      | 13<br>15 | Fertilizer cutbacks N<br>Medical diagnostics. A red-hot market   | Apr        | 25             | 25       |
| Goodrich, B.F. — Boiler that burns high-S  | Jan        | 11        | 16       | Gulf Oil Chemicals — Amoco Chemicals  | Outre      | , 20 | 15       | for chemicals and hardware (table)   | Feb        | 29             | 30       |
| - Letter   | Feb        |           | 5        | considering acquisition of polypropyl-<br>ene business  | Jan        | 18   | 12       | Polyester film expansion N<br>Polypropylene: alleged European price  | Mar        | 28             | 42       |
| Capacity for vinyl compounding to be<br>increased at Avon Lake, O R                    | Jan        | 11        | 16       | EPS: Optimism outpaces overcapacity   |            |      |          | fixingR  |            | e 20           | 23       |
| Chemical Group's white-collar ranks,   |            |           |          | (chart)   | Feb        | 29   | 18       | Sales and earnings 1983 N<br>First-quarter '84 N   |            | r 28<br>y 16   | 22       |
| face a 23% cutback N Chlor-alkali prices N   |            | 28<br>e 6 | 9<br>35  | monomer plant to be modernized R  | Feb        | 22   | 18       | West German chemical firms display   |            |                |          |
| PVC makers are smiling again (chart).  | Apr        | 4         | 24       | Gulf Resources & Chemical — Industrial<br>explosives unit to be sold to Dyno In-                          |            |      |          | new strength (charts & table) Hoeganaes — Landfill gas from PSE&G's  | Jun        | e 13           | 28       |
| PVC resin technology developed N<br>Sales and earnings, calendar 1983 N                | May        | 22        | 33       | explosives unit to be sold to Dyno In-<br>dustrier; deal to sell Lithium Co. of<br>America to FMC rumored | Ann        | OF.  | 44       | Cinnaminson, N.J. plant  | Jun        | e 20           | 28       |
| Science and technology advisory board  |            |           | 24       | Gulf States Utilities - Cogenerator/  | Apr        | 25   | 11       | Hoffmann-La Roche — Bicgen patent on<br>alpha interferons to be protested N                                | Feb        | 29             | 5        |
| Sues Formosa Plastics to protect its   | WHAT       | 14        | 24       | utility fuss over avoided costs: Louisi-<br>ana processors press for better prices                        |            |      |          | Drug patent bill passes a House com-   |            |                |          |
| PVC technology N Mar 7-9, VCM prices N   | Apr        |           | 25<br>25 | for excess power  | Feb        | 8    | 12       | mittee: PMA's endorsement dis-<br>avowedN  | Jun        | ne 20          | 74       |
| Goodsman Chemical Huntsman Chemi-  | Feb        |           |          |   |            |      |          | Medical diagnostics. A red-hot market<br>for chemicals and hardware (table)                                | Ech        | 29             | 30       |
| cal will lease polystyrene business R<br>Goodyear Tire & Rubber — Ashland              | Feb        | 1         | 17       | н   |            |      |          | Pentide synthesizers agreement with  |            |                |          |
| Chemical acquiring structural urethane-  |            |           |          | HO Process - Sodium chlorate plant in   |            |      |          | Vega Biotechnologies N<br>Products that use monoclonals  | Jur        | ne 27<br>ir 28 | 96<br>28 |
| adhesives business N<br>Ohio Poly see under name                                       | Feb        | 8 0       | 9        | Alabama onstream  | Jun        | e 27 | 15       | T-cell growth factor: Who's ahead in   |            |                |          |
| Polyester powder resin prices N  | Apr        | 25        | 57       | base: Atlas Copco pilot program gives   |            |      |          | the IL-2 race?   |            | r 18           | 16       |
| Gordon Securities — Canada's synfuels:   | Fel        | 22        | 40       | customer access to the supplier's   | May        | , 2  | 25       | Holappa, H.S. and Assoc. — Holappa on<br>the auto adhesives business                                       | Ma         | ar 28          | 10       |

| HoltraChem — Chlor-alkali prices N<br>Honeywell — Controllers, low-cost, that  | June   | 6  | 35  | Choline chloride imports: Synthex anti-  |   |  |   | International Power Chemicals — Fuel   |   |  |  |
|--|--|--|---|--|---|--|---|--|---|--|--|
| take care of furnaces N  | Jan  | 25   | 19  | dumping petitions claim foreign pro-<br>ducers trying to drive U.S. com-   |   |  |   | Tech granted acquisition option by Rolfite   | May 1   | 6  | 24   |
| Process control: Where hardware and<br>software clash  | Jan  | 26   | 20  | ducers trying to drive U.S. com-<br>petitors out of business (chart)   | Jan   | 18   | 14  | Interox America — Hydrogen peroxide prices   | luna 1  | 10   | 24   |
| Software-hardware agreement with Set-  |  |  |   | Ethylene glycol: Massive restructuring in a 'crummy business' (charts) Fiber research center opened N                                    | Mar   | 7  | 32  | InterPharm Laboratories — Israel's thriv-  | June 1  |  |  |
| point N<br>Software to communicate with IBM  | Apr  | 4  | 34  | Fiber research center openedN<br>Hazop procedure: risk assessment  | Apr<br>Feb  | 11   | 24<br>29  | ing biotech industry   | June  | 3  | 28   |
| computers N<br>Hoover Universal — Blow-molding tech-   | Mar  | 21   | 78  | LPG to make ethylene: Algerian capa-<br>city may be a bonanza for Europe's   | reu .   | 22   | 29  | Courting with more finesse (tables)  | Feb 1   | 15   | 34   |
| nology: lighter-weight half-gallon HDPE  |  |  |   | city may be a bonanza for Europe's<br>petrochemical makers (chart)   | Jan   | 25   | 16  | Investors in Industry Group — Research<br>Corporation Trust: the U.S. and U.K.   |   |  |  |
| bottle   | Feb  | 1  | 15  | Merger with Wellcome Foundation of   | oan   | 20   | 10  | ioin to spur European technology N   | June  | 6  | 25   |
| Houston, Colin A. & Assoc. — Houston comments on Texaco's bid for Getty  | Jan  | 18   | 11  | animal health operations into new company, Coopers Animal Health .R  | Mar   | 7  | 16  | lotech — Pilot plant for conversion of wood to ethanol, lignin and five-carbon   |   |  |  |
| Houston Lighting & Power — Cogenera-   | -  |  |   | Methanol unit for the Mideast studied N  | Jan   | 18   | 20  | sugars   | Apr   | 4  | 39   |
| tion study outlines a formula for estab-<br>lishing avoided costs (table)  | June   | 13   | 10  | Sharjah methanol plant discussed . N<br>Nylon for tire production N  | Feb   | 1  | 20  | Isochem — Nitroparaffin derivatives joint<br>venture with Angus Chemical; plant to   |   |  |  |
| Where did nuclear plants go wrong?   | June   |  | 18  | Polypropylene: alleged European price  | Feb   | 8  | 17  | be built in Wales N  | Feb   | 1  | 9  |
| Houston Natural Gas — Liquid Carbonic  | June   | 20   | 13  | fixing   | June  | 20   | 23  | Isomedix — Some rays of hope for irradi-   | Ann :   |  | 22   |
| to be acquired by CBI Industries N<br>Houston's Planning & Forecasting Con-  | June   | 20   | 13  | Sales and earnings: Fibres Div. fourth-<br>quarter '83 N<br>Sales and earnings, 1983 N   | Feb   | 15   | 18  | ating food (chart)   | Apr   | 11   | 33   |
| sultants — Steffes comments on clo-  | Mary   | 20   | 20  | Sales and earnings, 1983 N   | Mar   | 7  | 19  | sion policy abroad pays off for ICL  | Feb   | 8  | 21   |
| sure of the Strait of Hormuz<br>Huber, J.M. — Advanced Electric Reac-  | May  | 30   | 26  | First-quarter '84 N<br>Sells its 20% share in Vantona Viyella N  | May<br>Jan  | 9  | 25<br>16  | Israel Chemicals Projects — Joint ven-<br>tures sought: A bold expansion policy  |   |  |  |
| tor certified by EPA for high-temperature  | Many   | 16   | 44  | Separation device will be marketed by  |   |  |   | abroad pays off for ICL  | Feb   | 8  | 21   |
| destruction of PCBs in soils N — Correction  | May<br>May   | 23   | 16  | Glitsch N Technology for Billerud chlor-alkali   | June  | 20   | 26  | 1  |   |  |  |
| Nonbiological process for destroying<br>PCBs in soils: Advanced Electric   |  |  |   | conversion to membrane cell out-   | F-6   | 00   | 00  | J  |   |  |  |
| Reactor  | June   | 20   | 40  | put  | Feb   | 22   | 20  | JBF Associates — Risk assessors: How   |   |  |  |
| Humidial Desiccants — United Desiccants  |  |  |   | resins capacity to be doubled N  | June  | 27   | 90  | processors assess plant risk (diagram) JGC Corp. — Biotech entree: to buy 50% share of Fuji Life Science N   | Feb :   | 22   | 29   |
| products marketed under the name<br>Desi Pak   | Feb  | 8  | 16  | ICI Americas — Herbicides follow the<br>current trend to low-till farming: the   |   |  |   | share of Fuil Life Science   | Jan :   | 25   | 57   |
| Hunt, Philip A. Chemical — Olin bids   |  | 4  |   | boom in postemergent herbicides  |   |  |   | Jacobs Engineering — Contract for  |   |  |  |
| for full ownership   | Apr  | 4  | 9   | Imre — Joint venture with Pharmacia to   | May   | 9  | 12  | Schumacher silicon-processing plant R<br>Hemihydrate process developed by  | May   | 2  | 19   |
| leave-it offerN Olin-Hunt merger: some of Hunt's   | Арг  | 11   | 11  | research technique that would purify<br>and treat blood after it is removed from   |   |  |   | Norsk Hydro Fertilizers offered:   |   |  |  |
| minority stockholders seek to block  |  |  |   | and treat blood after it is removed from<br>the body N   | Feb   | 1  | 30  | H <sub>3</sub> PO <sub>4</sub> makers look again at the<br>hemihydrate route   | Mar   | 14   | 48   |
| merger   | June   | 20   | 13  | Industrial Bio-Test Laboratories — Sen-  |   |  |   | Letter   |   |  | 25   |
| outpaces overcapacity (chart)  | Feb  | 29   | 18  | tences for three former employees R<br>Industrial Plastic Container — Selar-made   | Apr   | 18   | 17  | Licenses Norsk Hydro Fertilizers' pro-   | Mar   | 7  | 30   |
| outpaces overcapacity (chart)<br>Expands in U.K.: will take over 20,000  |  |  |   | containers   | Mar   | 14   | 50  | cesses N<br>New directions for engineering com-  | rvi ai  |  |  |
| metric tons/yr of polystyrene manu-<br>facturing capacity from Shell Chemi-  |  |  |   | containers   | Mar   | 91   | 20  | Japanese Foundation for Cancer Re-   | Apr   | 4  | 30   |
| cals U.KN  | May  | 2  | 20  | duction slated   | Mar   | 21   | 20  | search — Cancer research grant from  |   |  |  |
| Goodson Chemical's polystyrene busi-<br>ness will be leased  | Feb  | 1  | 17  | terest N Mar 14-11, N<br>Ingersoll-Rand — Corrosion-resistant  | Apr   | 4  | 9   | Bristol-Myers  | May   | 2  | 37   |
| Huron Chemicals — HO Process sodium  |  |  |   | casting alloyN   | Feb   | 22   | 32  | boost for chemicals  | Mar   | 21   | 71   |
| chlorate plant in Alabama onstream . R<br>Husky Oil — Canada's synfuels: a cauti-  | Jun  | e 27   | 15  | casting alloy  |   |  |   | Johns-Manville — Guardian infringed on   |   |  |  |
| ous phoenix  | Feb  | 22   | 40  | to S.C. Johnson  | Mar   | 21   | 19  | a patent and used trade secrets of J-M<br>in manufacture of fiberglass insulation  |   |  |  |
| Nova shines, but less brightly: Blair —<br>Making Husky Oil a Canada-only op-  |  |  |   | to S.C. Johnson  |   |  |   | court rulesR   | Jan   | 4  | 15   |
| eration  | Jun  | e 27   | 88  | Chemical over methanol-TBA additive. N<br>Inland Specialty Chemical — Removing   | June  | 21   | 7   | Johnson & Higgins — Pension-plan ex-<br>penditures study   | May   | 30   | 32   |
| Synthetic oil project moves forward:   |  |  |   | homes motals from industry wantes Al   |   | 2  | 37  | Johnson & Johnson - Drug natent hill   |   |  |  |
| nartners sought N  | Jun  | e 20   | 50  | heavy metals from industry wastes N  | May   | -  | 31  | Johnson & Johnson - Drug patern Dill   |   |  |  |
| partners sought N<br>Hutchinson, Fred Cancer Research Cen-   | Jun  | e 20   | 50  | Inland U.S.A. — Suing Arco Chemical over   |   |  |   | penditures study  Johnson & Johnson — Drug patent bill passes a House committee: PMA's en- dorsement disavowed  N  | June  | 20   | 74   |
| partners sought  |  |  |   | Inland U.S.A. — Suing Arco Chemical over methanol-TBA additive   | June<br>Jan   |  | 7   | lbuprofen's contested road over the  | June  | 20   | 74   |
| partners sought N<br>Hutchinson, Fred Cancer Research Cen-<br>ter — Cancer research grant from<br>Bristol-Myers N<br>Hutton, E.F. — AAC Holdings see under   | Jun  |  | 50<br>37  | Inland U.S.A. — Suing Arco Chemical over<br>methanol-TBA additiveN<br>Inmont — Acna purchased.<br>Institute for Pharmaceutical Biology — | June  | 27   | 7   | ibuprofen's contested road over the counter: J&J challenges FDA's say  |   |  |  |
| partners sought N Hutchinson, Fred Cancer Research Cen- ter — Cancer research grant from Bristol-Myers N Hutton, E.F. — AAC Holdings see under name  |  |  |   | Inland U.S.A. — Suing Arco Chemical over<br>methanol-TBA additive  | June  | 27   | 7   | dorsement disavowed N<br>Ibuprofen's contested road over the<br>counter: J&J challenges FDA's say<br>on consumer advertising<br>Ortho see under name   | June  |  | 74<br>12   |
| partners sought N N N Hutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N Hutton, E.F. — AAC Holdings see under name Biotechnology: Why Wall Street wants more biotechnology data   |  | , 2  |   | Inland U.S.A. — Suing Arco Chemical over<br>methanol-TBA additive  | June<br>Jan   | 27<br>4  | 7<br>17   | dorsement disavowed N<br>Ibuprofen's contested road over the<br>counter: J&J challenges FDA's say<br>on consumer advertising<br>Ortho see under name<br>Johnson Matthey — Custom drug houses:  | June  | 6  | 12   |
| partners sought N Hutchinson, Fred Cancer Research Cen-<br>ter — Cancer research grant from Bristol-Myers N Hutton, E.F. — AAC Holdings see under name Biotechnology: Why Wall Street wants more biotechnology data Schneider comments on factor VIII  | Ma   | 7  | 37  | Inland U.S.A.— Suing Arco Chemical over methanol-TBA additive  | June<br>Jan   | 27<br>4  | 7<br>17   | dorsement disavowed in the budget of the counter: J&J challenges FDA's say on consumer advertising of the see under name Johnson Matthey — Custom drug houses: The new entries Johnson KS, C. — Ink Technology will  |   | 6  |  |
| partners sought — Neuroline of the control of the c | Ma<br>Ma<br>Jan  | 7  | 37<br>22<br>22  | Inland U.S.A.— Suing Arco Chemical over methanol-TBA additive  | June<br>Jan<br>Jan<br>Apr   | 27<br>4<br>4<br>25   | 7<br>17<br>18<br>25   | dorsement disavowed in bluprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising. Ortho see under name Johnson Matthey— Custom drug houses: The new entries Johnson, S.C. — Ink Technology will grant marketing rights for UC-cured  | June  | 6  | 12<br>46   |
| partners sought — Neuroline of the control of the c | Ma<br>Ma<br>Jan  | 7  | 37  | Inland U.S.A. — Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Apr<br>June  | 27<br>4<br>4<br>25   | 7<br>17<br>18<br>25   | dorsement disavowed in the budget of the counter: J&J challenges FDA's say on consumer advertising of the see under name Johnson Matthey — Custom drug houses: The new entries Johnson KS, C. — Ink Technology will  | June<br>May<br>Mar  | 6  | 12   |
| partners sought N N N Hutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N N Hutton, E.F. — AAC Holdings see under name Biotechnology Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on kilogram quantities of monoclonal antibodies Schneider: Why Wall Street wants more biotechnology data   | Ma<br>Ma<br>Jan  | 7  | 37<br>22<br>22  | Inland U.S.A. — Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Jan<br>Apr   | 27<br>4<br>4<br>25   | 7<br>17<br>18<br>25   | dorsement disavowed in the counter: J&J challenges FDA's say on consumer advertising orthosee under name Johnson Matthey — Custom drug houses: The new entries Johnson S.C. — Ink Technology will grant marketing rights for UC-cured inks and coatings.   | June<br>May<br>Mar  | 6<br>9<br>21   | 12<br>46<br>19   |
| partners sought N N Hutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N Hutton, E.F. — AAC Holdings see under name Biotechnology: Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on kilogram quantities of monocional antibodies Schneider: Why Wall Street wants more biotechnology data  | Ma<br>Ma<br>Jan<br>Ma  | 7 11 11 7 28   | 37<br>22<br>22<br>28<br>22  | Inland U.S.A. Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Apr<br>June<br>May   | 27<br>4<br>4<br>25<br>6<br>23  | 7<br>17<br>18<br>25<br>17   | dorsement disavowed in blouprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising. Ortho see under name Johnson Matthey — Custom drug houses: The new entire. So, Ink Technology will grant marketing rights for UC-cured niks and coatings. — R Folymers for water-based ink systems.   | June<br>May<br>Mar  | 6<br>9<br>21   | 12<br>46<br>19   |
| partners sought N N Nutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N Hutton, E.F. — AAC Holdings see under name Biotechnology. Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on kilogram quantities of monoclonal antibodies Schneider. Why Wall Street wants more biotechnology data Hybritech — Biotech firms scramble for new ways to raise cash Greene comments on making new vendreed or the seed of the se | Ma<br>Jan<br>Ma<br>Ma<br>Ma  | 7 11 128 7 7 y 23  | 37<br>22<br>22<br>28<br>22<br>9                                     | Inland U.S.A.—Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Apr<br>June  | 27<br>4<br>4<br>25<br>6<br>23  | 7<br>17<br>18<br>25   | dorsement disavowed in the counter: J&J challenges FDA's say on consumer advertising orthosee under name Johnson Matthey — Custom drug houses: The new entries Johnson S.C. — Ink Technology will grant marketing rights for UC-cured inks and coatings.   | June<br>May<br>Mar  | 6<br>9<br>21   | 12<br>46<br>19   |
| partners sought N N N Hutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N N Hutton, E.F. — AAC Holdings see under name Biotechnology Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on kilogram quantities of monoclonal antibodies Schneider: Why Wall Street wants more biotechnology data Hybritech — Biotech firms scramble for new ways to raise cash Greene comments on making new ventures og (chart)   | Mai<br>Jan<br>Ma<br>Ma<br>Ma   | 7 11 17 28 17 7 19 23 11 11  | 37<br>22<br>22<br>28<br>22<br>9                                     | Inland U.S.A. Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Apr<br>June<br>May   | 27<br>4<br>4<br>25<br>6<br>23<br>25  | 7<br>17<br>18<br>25<br>17   | dorsement disavowed in bloprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising orthose set under name Johnson Matthey — Custom drug houses: The new entire Johnson, S.C. — Ink Technology will grant marketing rights for Uc-cured inks and coatings   | June<br>May<br>Mar<br>Apr   | 6<br>9<br>21<br>18   | 12<br>46<br>19<br>10   |
| partners sought N N N Hutchinson, Fred Cancer Research Center — Cancer research grant from Bristol-Myers N N Hutton, E.F. — AAC Holdings see under name Biotechnology. Why Wall Street wants more biotechnology data Schneider comments on factor VIII Schneider comments on factor VIII Schneider comments on kilogram quantities of monoclonal antibodies Schneider. Why Wall Street wants more biotechnology data hybritech — Biotech firms scramble for new ways to raise cash Greene comments on making new ventures go (chart) Human monoclonals for hepatitis B N   | May<br>Mar<br>Mar<br>Mar<br>Mar<br>Api   | y 2<br>7 7<br>11<br>7 28<br>7 7<br>9 23  | 37<br>22<br>22<br>28<br>22<br>9<br>44<br>32                         | Inland U.S.A. Suing Arco Chemical over methanol-TBA additive   | June<br>Jan<br>Apr<br>June<br>May<br>Jan  | 27<br>4<br>4<br>25<br>6<br>23<br>25  | 7<br>17<br>18<br>25<br>17<br>9  | dorsement disavowed in bluprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising. Ortho see under name Johnson Matthey — Custom drug houses: The new entries. Johnson, S.C. — Ink Technology will grant marketing rights for UC-cured inks and coatings. — R Polymers for water-based ink systems.  KRC Research — Asbestos containment: A controversial alternative.  | June<br>May<br>Mar  | 6<br>9<br>21<br>18   | 12<br>46<br>19   |
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| partners sought N. N. Hutchinson, Fred Gancer Research Center — Cancer research grant from Bristol-Myers N. N. Hutton, E.F. — AAC Holdings see under name Biotechnology. Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on factor VIII projects of monoclonal antibodies. Schneider Why Wall Street wants more biotechnology data. Hybritech — Biotech Itims scramble for new ways to raise cash of the seed of t | Mai Jan Ma Ma Ma Ma Jan Ma Ma Jan Ma Jan Ma Jan Ma Jan Jan Ma Jan Jan Jan Jan Jan Jan Jan Jan Jan Ja       | 7 2 11 17 28 17 7 7 11 11 11 11 11 7 12 8 17 7 11 11 11 7 11 11 7 11 11 11 7 11 11   | 37 22 28 22 9 44 32 31 34 30 22 50 23 9 14                          | Inland U.S.A. Suing Arco Chemical over methanol-TBA additive   | June Jan Apr June May Jan Mar Apr Mar Feb Mai Feb Mai Apr Mar Mar Mar Mar Mar Mar Mar Mar Mar Ma  | 27<br>4<br>4<br>25<br>6<br>23<br>25<br>21<br>18<br>30<br>14<br>28<br>15<br>15<br>22<br>28<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11        | 7 17 18 25 17 9 13 78 13 28 37 22 24 19 14 20 10 19 9 48 38 36 9  | dorsement disavowed in buprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising.  Ortho see under name Johnson Matthey — Custom drug houses: The new entires of the control of the c | June May Mar Apr June Apr Jan May May Feb Apr         | 6 9 21 18 20 23 8 23 18 18 29 18 21 25 11 8 20 4 18                                  | 12<br>46<br>19<br>10<br>33<br>30<br>24<br>17<br>20<br>22<br>22<br>9<br>9<br>23<br>37<br>13<br>57<br>34<br>44<br>30                   |
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| partners sought N. N. Hutchinson, Fred Gancer Research Center — Cancer research grant from Bristol-Myers N. N. Hutton, E.F. — AAC Holdings see under name Biotechnology. Why Wall Street wants more biotechnology data Schneider comments on factor VIII projects Schneider comments on factor VIII projects of monoclonal antibodies. Schneider Why Wall Street wants more biotechnology data. Hybritech — Biotech Itims scramble for new ways to raise cash of the seed of t | Mai Jan Ma   | y 2<br>1 7<br>1 11<br>1 7 28<br>1 11<br>1 11<br>1 11<br>1 12<br>2 9<br>1 11<br>1 11<br>2 29<br>1 12<br>1 12<br>1 13<br>1 14<br>1 15<br>1 | 37 22 28 22 28 22 9 44 32 31 34 30 22 50 23 9 9 14                  | Inland U.S.A. Suing Arco Chemical over methanol-TBA additive   | June Jan Apr June May Jan Mar Apr Mar Feb Mai Feb Mai Apr Mar Mar Mar Mar Mar Mar Mar Mar Mar Ma  | 27<br>4<br>25<br>6<br>23<br>25<br>21<br>18<br>29<br>18<br>30<br>14<br>28<br>15<br>15<br>22<br>28<br>11<br>14<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11 | 7 17 18 25 17 9 13 78 13 28 37 22 24 19 14 20 10 19 9 48 38 36 9 55   | dorsement disavowed in buprofen's contested road over the counter: J&J challenges FDA's say on consumer advertising.  Ortho see under name Johnson Matthey — Custom drug houses: The new entires of the control of the c | June May Mar Apr June Apr Jan May May Jan Apr Feb Apr | 6 9 21 18 20 25 11 8 29 18 21 25 11 8 20 4 18 21 5                                   | 12<br>46<br>19<br>10<br>33<br>30<br>24<br>17<br>20<br>22<br>22<br>9<br>9<br>23<br>37<br>13<br>57<br>34<br>29<br>44<br>30<br>10<br>15 |

| KemaNobel — Acquires Drexel Chemical   |            |      |          | Landor Associates — Vogler comments   |            |                |          | Chemicals becomes distributor for bro-  | Mor        | 7     | 16       |
|--|------------|------|----------|---|------------|----------------|----------|---|------------|-------|----------|
| in its move into the U.S N   | Mar :      | 28   | 22       | on polyethylene bags  | Jan        | 18             | 26       | minated fire tamers   |            |       | 16       |
| Marketing rights in U.S. for quaternary<br>ammonium compounds assigned to      |            |      |          | nium dioxide plantsN  | Apr        | 25             | 25       | materials for diagnostic kits  Mann's Bait see Techsonic Industries               | Feb 2      | 29    | 31       |
| Biesterfield U.S N<br>PVC operations sold to Norsk Hydro;                      | June       | 6    | 18       | U.S. acquisitions: Great Lakes Bio-<br>chemical and an 80% stake in Chem-                       |            |                |          | Manville — Asbestos-related claims law-   |            |       |          |
| Unifos Kemi sold to Neste N  | Mar        | 7    | 19       | ical Specialties  | Feb        | 1              | 20       | suit against its insurers settled N<br>Margiloff & Associates — Landfill gas:     | June       | 6     | 9        |
| Unifos Kerni's acquisition by Neste ap-<br>proved.                             | Apr        | 4    | 18       | prices  | June       | 27             | 16       | Margiloff & Associates — Landfill gas:<br>Margiloff — 'It's a question of "use it | June 2     | 20    | 28       |
| provedN<br>KemaNord — Making strong bid for the                                | . 4.       |      |          | prices N Lauriente, D.H. Consultants — A bleak outlook for nitrogen fertilizers N               | June       |                | 35       | or lose it"  Margolis Marketing and Research —                                    |            |       |          |
| sodium chlorate market in North<br>America N                                   | Feb        | 15   | 18       | Lawrence Berkeley Laboratory — Pro-   | Julie      | 0              | 33       | Coated plastics study   | Jan '      | 18    | 18       |
| Sodium chlorate prices N<br>KemaNord Bleaching Chemical — Sodi-                | May        | 30   | 24       | ject to determine whether aerogels can<br>be used to insulate windows N                         | Feb        | 15             | 33       | cal over methanol-TBA additive N  | June :     | 27    | 7        |
| um chlorate capacity boost at Colum-   |            |      |          | Lawter International - Sales and earn-  |            |                |          | Marion Laboratories — Heffernan on in-<br>ventories: companies reducing the       |            |       |          |
| bus, Miss. plant N<br>Kemper Group — Prices for new plant                      | Feb        | 15   | 19       | ings: Fourth-quarter '83 N<br>Lepetit — Diagnostics unit being sold to                          | Feb        | 29             | 5        | number of their suppliers   | Feb        | 8     | 32       |
| and equipment climb slowly N   | Feb        | 8    | 9        | Enichimica  | Jan        | 18             | 20       | Market Facts — Paperboard milk carton study                                       | Feb        | 1     | 15       |
| Kennedy Van Saun — Desulfurizing petro-<br>leum coke N                         | Mar        | 21   | 78       | Dow seeks full ownership of an Italian unit   | May        | 30             | 18       | Market Search — Automotive plastics:<br>10-year projection                        | Mar        | 7     | 13       |
| Diamond West testing desulfurization   |            |      |          | unit N<br>Libby-Owens-Ford — Automobile wind-   | inay       | -              |          | Best comments on milk container mar-  | Mar        | ,     |          |
| process for petroleum coke   | Apr        | 4    | 22       | shields: antilacerative coatings come a<br>step closer  | May        | 23             | 25       | Best discusses automotive plastics  | Feb        | 1     | 15       |
| by KemaNobel, will operate as an arm   | Mor        | 20   | 22       | step closer N<br>Liebert, Mary Ann — Charter member of<br>the Association of Biotechnology Com- |            |                |          | demand  | Mar        | 28    | 10       |
| of KenoGardN<br>Kerr-McGee — Potash producers file for                         | Mar        | 20   | 22       | panies (table)  | Jan        | 25             | 13       | Best comments on plastics in food<br>packaging                                    | Jan        | 18    | 25       |
| import relief N<br>Silkwood case: company loses the                            | Apr        | 18   | 20       | Lilly, Eli & Co. — Animal feed supple-  |            |                |          | Urethanes forecast Mars Oil — Suing Arco Chemical over                            |            | 11    | 13       |
| latest ruling N  | Jan        | 18   | 44       | ment, Rumensen: Helping cows make   | Apr        | 18             | 11       | methanol-i BA additive N  | June       | 27    | 7        |
| Soda ash prices  | Mar        | 7    | 24       | Counterfeiting: legislation aims at curb-<br>ing products with bogus trademarks                 | May        | 2              | 16       | Martin Marietta Energy Systems — Oak<br>Ridge National Laboratory see under       |            |       |          |
| new hydrocracker design by Lummus  |            |      |          | Herbicides follow the current trend to  | widy       | -              | 10       | name  |            |       |          |
| Crest N<br>Key Pharmaceutical — Searle withdraws                               | Apr        | 11   | 30       | low-till farming: the boom in post-<br>emergent herbicides (table)                              | May        | 9              | 12       | Masterclean of North Carolina — Asbestos<br>abatement: cost comparison with en-   |            |       |          |
| court motion to stop marketing of theo-  | F-4        | 00   | 40       | Plant tissue culture: chemotherapeutic  |            |                |          | capsulation   | June       | 20    | 34       |
| phylline antibronchial drug, Theo-Dur R<br>Kidder Peabody — Klein comments on  | Feb        | 22   | 18       | agents vinblastine and vincristine Time-release herbicides                                      | Jan<br>May | 23             | 19<br>32 | Mattel — Toy parts made from resins filled with BaSO, show up on X-rays           | Apr        | 11    | 20       |
| Kopvenco's investments   | Feb        | 29   | 10       | Treflan herbicide: price gambit fizzles .   | Feb        | 29             | 7        | Mauser-Werke Licenses technology  |            |       |          |
| Kinetics Technology International — New directions for engineering companies.  | Apr        | 4    | 30       | Linde — Industrial gases heat up in Europe<br>Methanol reactor will get a testN                 | Mar<br>Jan |                | 66<br>38 | for HDPE drums to Florida Drum  Max Factor — Esmark's acquisition by              | Mar        | 14    | 55       |
| Kinnan and Associates — Jet injection  |            |      |          | Liposome Technology — Joint program   | -          |                |          | Beatrice Foods: Whither Esmark's and  |            |       |          |
| device for use with grouts N<br>Kirin Brewery — Joint venture with Am-         | Mar        | 7    | 30       | to develop liposome-based medical products N  | Mar        | 28             | 33       | Beatrice's chemicals?  McCrone Environmental Services — As-                       | May        | 30    | 13       |
| gen to make and market a synthetic   |            |      |          | products N<br>Liquid Air — Air separation plant in Or-  |            |                |          | bestos containment: A controversial   |            |       |          |
| hormone for boosting red blood cells<br>May 23-9,                              | May        | 23   | 35       | lando, Fla. planned R<br>Liquid Carbonic — CBI Industries' pro-                                 | Feb        | 1              | 17       | McDonnell-Douglas — Illinois hazardous  | June       | 20    | 33       |
| Kline, Charles H. — Alum prices  | May        | 23   | 21       | posed acquisition N<br>Lithium Corp. of America — Gulf Resour-                                  | June       | e 20           | 13       | waste site suit still pending N   | June       | 13    | 40       |
| Listner comments on circuit-board chemicals                                    | Jan        | 11   | 12       | ces rumored to be selling LCA to  |            |                |          | McGregor — Fabrege will support take-<br>over                                     | Feb        | 1     | 14       |
| Piech comments on attempted integra-   |            |      |          | FMC N   | Apr        |                | 11       | McKesson - Controlling interest in En-  |            |       |          |
| tion into diagnostics N  | Feb<br>May |      | 30       | Lithium chemicals prices N Feb 1-25, N<br>Little, Arthur D. — Acquisition of Solar              | Apr        | 18             | 20       | vironmental Systems may be acquired   | Apr        | 4     | 9        |
| Knutsen Associates — Survey of IS prac-  |            |      |          | Power's assets planned N  | Apr        | 11             | 11       | Distribution business: five companies   |            |       | _        |
| tices of 225 companies (charts) Koch Engineering — Packing's growing           | May        | 23   | 26       | Continuous fermentation: comments<br>by J.M. Nystrom  | Feb        | 22             | 42       | acquired  | Feb        | 1     | 9        |
| role in distillation (diagram)   | June       | 13   | 18       | by J.M. Nystrom<br>Lead acrylic polymer: A lower cost   |            |                |          | of Molecular Biology — How genetic  |            |       |          |
| Kohjin — Medical diagnostic-grade bulk<br>enzymes                              | Feb        | 29   | 32       | shield from radiation   | Apr        | 25             | 69       | engineers will customize proteins<br>Mercer Plastics — Acquired by Dexter . N     | Mar<br>Jan |       | 79       |
| Kohlberg, Kravis & Roberts — Acquisition                                       | 1 00       | 20   | O.       | plant risk (diagram)  | Feb        | 22             | 29       | Merck — Annual report: R&D spending   |            |       |          |
| offer to purchase Esmark; including<br>Norton Simon and Estech                 | May        | 9    | 11       | Litton Bionetics — Caprolactam carcino-<br>genesis bioassay                                     | May        | 23             | 13       | up; new products to be introduced Ñ<br>Chickenpox vaccine: A triumph for con-     | Mar        | 21    | 19       |
| Esmark leveraged buyout puts Es-   |            |      |          | Litton Institute of Applied Biotechnology —   |            | , 20           |          | ventional microbiology N  | June       | 9 6   | 9        |
| tech buyout on hold N<br>Kolb, Karl — Facilities shipped to Iraq               | May        | 16   | 11       | Center for Advanced Research in Bio-<br>technology, CARB: new biotech center                    |            |                |          | Drug patent bill passes a House com-<br>mittee: PMA's endorsement dis-            |            |       |          |
| may be capable of producing nerve  |            |      |          | allies diverse groups   |            | 22             | 16       | avowedN   | June       | 9 20  | 74       |
| gas: rumors denied N<br>Komanoff Energy Associates — Nuclear                   | Apr        | 11   | 58       | Loctite — Can Loctite get back on track?  | Apr        | 25             | 18       | Greece: Papandreou's squeeze drives<br>drug firms out                             | Feb        | 8     | 15       |
| power cost overruns: measuring the   |            |      |          | (charts)  | Jan        | 11             | 28       | Ivomec, first drug to combat cattle   | Mar        | 14    | 46       |
| impact   | Mar        | 14   | 33       | Lone Star Veterinary Supply — Acquired by McKesson N  | Feb        | 1              | 9        | parasites   | Mar        | 14    | 40       |
| corporate bylaws ratified by stock-  |            |      |          | by McKesson   |            |                |          | screen system, a computer assist for<br>the Ames test, "on the agenda" for        |            |       |          |
| holders  | May<br>Feb |      | 11       | ing government help from financial<br>debt created by building ruclear power                    |            |                |          | purchase  | Mar        | 21    | 14       |
| Investor relations. Courting with more   |            |      | 34       | plants  | Ma         | y 2<br>r 28    | 10       | Nicorette, prescription chewing gum,<br>helps smokers quit                        | Mar        | 14    | 22       |
| finesse (tables)   | Feb        | 15   | 34       | L'Oreal — Hair-care mousses: a boost  |            |                |          | Messer Griesheim — Industrial gases   |            |       |          |
| ogy to develop diagnostic kits for<br>plant diseases R Feb 15-16, R            | Feb        | 20   | 10       | tor chemicals   | Ma         | 21             | 71       | heat up in Europe Metaramics — Acquired by Grace                                  | Mar        | 21    | 66<br>12 |
| Phthalic anhydride plant at Cicero, III.                                       |            |      |          | Promega Biotec forms joint venture  | Jan        | 11             | 16       | Microbiological Associates — Center for   | 10161      |       |          |
| will be restarted  | Feb        | 22   | 9        | Lubrizol Enterplises — Acquires the as-<br>sets of Lynnville Seed; previous ac-                 |            |                |          | Advanced Research in Biotechnology,<br>CARB: new biotech center allies di-        |            |       |          |
| go to convert from o-xylene to naph-   |            |      |          | guisitions include Sigco Research and   |            |                |          | verse groups  | Feb        | 22    | 16       |
| thalene feedstock  | Feb        | 15   | 16       | interest in ChemdesignR<br>Making new ventures go   | Apr        | 18             | 18<br>46 | Miles Laboratories — Ames Div.: Medical diagnostics — home testing                | Feb        | 29    | 35       |
| MotorTech joint venture of Kopvenco,   |            |      |          | Murfin: Holding equity in a dozen bio-  |            |                |          | diagnostics — home testing  | Apr        | 4     | 36       |
| Crane Cams, Continental and Henry<br>Yunick                                    | Feb        | 29   | 10       | tech firms  | Ma         | y 23           | 10       | How genetic engineers will customize proteins                                     | Mar        | r 21  | 79       |
| Kyoto Daiichi Kagaku - Medical diag-   |            |      |          | yields more middle distillate N   | Apı        | 11             | 30       | Plant tissue culture: comments by<br>Goldstein on economics                       | Jan        | 4     | 18       |
| nostics: analyzers   | Feb        | 29   | 32<br>69 | New directions for engineering com-<br>panies   | Apr        | 4              | 30       | Mira Lanza — Montedison buys 61%  |            |       |          |
| Kyowa Hakko Kogyo — Microorganisms   |            |      |          | Whose NH, plant is the most energy-   |            |                |          | interest  | Ma         | y 30  | 18       |
| boost the production of threonine N<br>Kyowa Medex — Medical diagnostics:      | Apr        | 11   | 30       | efficient? Lummus, with Ammonia<br>Casale technology, challenges                                |            |                |          | with Dead Sea Works   | Feb        | 8 0   | 21       |
| diagnostic-grade bulk enzymes  | Feb        | 29   | 32       | Kellogg   | Ma         | r 21           |          | Missouri Farmers Assn. — Merger with<br>Farmland Industries considered as a       |            |       |          |
| 1  |            |      |          | Letter     Lurgi — Fluidized-bed boilers.   | Jur        | ne 20<br>ne 20 | 5        | means of restoring financial stability . N  | Jun        | ne 13 | 9        |
| _  |            |      |          | Lynnville Seed — Lubrizol Enterprises ac-   | l          |                |          | Mitchell Energy — Skid-mounted gear for<br>smaller NGL fields                     | Ma         | v 2   | 33       |
| LCP Chemicals & Plastics - Caustic   |            |      |          | quires assets   | Jai        | 18             | 18       | Mitsubishi Chemical Industries — Catalyst   |            | , -   | 00       |
| soda prices  | Ma         | r 21 | 65       | M   |            |                |          | Resources licenses polypropylene poly-<br>merization catalyst Lynx 900 N          | Fel        | b 15  | 33       |
| ter  |            | 11   | 5        |   |            |                |          | Japan's chemicals: Not well but better  |            |       |          |
| LP Chemicals — Chlor-alkali prices N<br>Laboratory Equipment — Lab instruments | Jun        | ne 6 | 35       | MCI Rigid Disc — Joint venture will con-<br>vert aluminum smelter to make mag-                  |            |                |          | (charts)  | Apı        | r 11  | 51       |
| for rent from United States Analytical   |            |      |          | netic discs N   | . 18 37    | ne 13          | 34       | glycol in Japan   | Ma         | r 7   | 33       |
| Instruments<br>Labsystems — Mutascreen system: a                               | Jar        | 18   | 14       | M&T Chemicals — Antimony organics N   | Jur        | ne 27          | 16       | Catalyst development for EG produc-<br>tion from synthesis gas                    | Ma         | r 7   | 35       |
| computer assist for the Ames test  | Ma         | r 21 | 14       | Distributor for Israeli brominated fire   |            |                |          | Japan's chemicals: Not well but better  | r          |       |          |
| Lanchem — Akzo acquires company which will operate as a subsidiary of          |            |      |          | tamers  |            | r 7            | 16       | (chart) MCI Rigid Disc, joint venture, will con-                                  |            | r 11  | 51       |
| Akzo Coatings America N  | Fel        |      | 9 5      | joint venture with BBC Brown N<br>Makhteshim Chemical Works — M&T                               | Ap.        | r 4            | 34       | vert aluminum smelter to make mag-<br>netic discs                                 | -          | ne 13 | 34       |
| Correction   | Ap         | r 25 | 9        | Malical Works - Mal   |            |                |          | 1000 0000   | oui        | 10    | 3-1      |

| Norton's packing used in ethylene plant (diagram)  | June '     | 7            | 18<br>19 | Letter     Monsanto wins round two N Round three: New Zealand court restrains Stauffer's activity for gly-        | Mar<br>June | 14       | 5<br>20  | Mycogen — Time-release herbicides:<br>mycoherbicides — fungi that are used<br>as biological herbicides                                       | May 3      | 23    | 32       |
|--|------------|--------------|----------|---|-------------|----------|----------|--|------------|-------|----------|
| linerless closures   | Mar :      | 28           | 19       | phosate-based Touchdown herbi-<br>cide  | June :      | 20       | 23       | N  |            |       |          |
| ene glycol in Japan<br>Catalyst development for EG produc-<br>tion from synthesis gas                            | Mar<br>Mar | 7            | 33<br>35 | Herbicide Roundup: Stauffer sued in<br>Germany N<br>Herbicides follow the current trend to                        | Jan         | 25       | 19       | NSM — EEC fertilizer makers squabble:<br>Dutch fertilizer competition is still   |            |       |          |
| Plant tissue culture: red dye and as-<br>trigent called shikonin   |            |              |          | low-till farming: the boom in post-<br>emergent herbicides (table)  | May         | 9        | 12       | "unfair" NUS — A'RGUS software system  | Mar        | 7     | 36       |
| Mitsui Toatsu Chemicals — Japan's chemicals: Not well but better (chart)   | Jan<br>Apr | 11           | 18<br>51 | icals at plant in Sauget, III R   | May         |          | 17       | to treating cooling water; comments on   | Mar        | 1     | 36       |
| Mobay Chemical — Anthraquinone   |            |              |          | Inventories: How companies are hold-<br>ing down inventories (charts)   | Feb         | 8        | 28       | Calgon's pHreeguard  | Mar        | 7     | 11       |
| prices   | Apr<br>Mar | 7            | 26<br>13 | Investor relations. Courting with more finesse (tables)   | Feb         |          | 34       | Adhesives makers court the clubby auto market  | Mar        |       | 10       |
| surge  |            | 11           | 13       | Irradiating grains with electron beams instead of EDB treatment will be   |             |          |          | Auto market: Automotive Chemicals  | IVIGI      | 20    | 10       |
| More jobs but tight money R<br>Polycarbonate-ABS blends: Filled-resin<br>EMI shielding is Mobay's wedge into     | May        | 23           | 17       | urged   | Feb         | 22       | 9        | Group formed; hydrocarbon emis-<br>sions control for spray-painting<br>shops; acquires equity in Adco  |            |       |          |
| computers  | Feb        | 1            | 16       | for the Ames test Lasso herbicide ingredient alachlor:  | Mar         | 21       | 14       | ProductsN  | Mar        | 21    | 9        |
| Thionyl chloride prices N Witco wins big in foam patent suit: Mobay found guilty of patent infringe-             | May        | 23           | 25       | EPA now re-reviewing the safety N   | June        |          | 13       | Electronic chemical investments: ac-<br>quisition of Circuit Services; 20%   |            |       |          |
| Mobay found guilty of patent infringe-<br>ment and guilty of breaching a license                                 |            |              |          | Maleic capacity N Maleic anhydride prices N   | Jan<br>May  | 9        | 25<br>60 | equity purchase in Rodel and Rodel<br>Products N Jan 4-9,  | Jan        | 11    | 12       |
| agreement  | June       | 6            | 11       | Methanol unit at Texas City, Tex. may be scrapped   | Mar         | 7        | 13       | Investor relations. Courting with more finesse (tables)  | Feb        | 15    | 34       |
| Mobil Chemical — Acquires Du Pont's can-coating operations N   | Jan        |              | 9        | Nitro, W. Va. dioxin-exposure lawsuit:<br>USWA will help finance trial for  |             |          |          | Patent suit settlements with Allied  |            |       |          |
| Another shipper/railroad brawl<br>Clay-settling technology called electro-                                       | Feb        | 15           | 14       | plaintiffs  | June        | 13       | 9        | Colloids   | Apr        | 18    | 17       |
| endosmosis will be tested at Ft.<br>Meade, Fla. phosphate mine N   | Jan        | 25           | 19       | icy   | June        | 13       | 39       | Industries see under name<br>Fatty acids prices  | Feb        | 8     | 24       |
| Cortez CO, pipeline starts up N  | Jan        | 4            | 20       | Prism separator: adaption of technology to small landfills  | June        | 20       | 28       | PE plant buys from Arco and Owens-<br>Illinois confirmed   | Jan        |       | 17       |
| p-Methyl styrene joint-venture plant at<br>Baton Rouge: Mobil taking over  |            |              |          | Process control: Where hardware and   |             |          |          | U.S. Industrial Chemicals see also   | Jan        | 25    | 11       |
| some of Hoechst's role N<br>Newlin: A single global market for   | Apr        | 18           | 20       | The recent freeze takes its toll  | Jan<br>Jan  | 25<br>11 | 20<br>11 | under name<br>National Fertilizer Development Center   |            |       |          |
| polyethylene N<br>OSHA awards for superior safety and  | Apr        | 18           | 20       | Research agreement with Oxford Univ.<br>to study the role of sugars in cell                                       |             |          |          | Douglas discusses fertilizer inven-<br>tories at FI annual meeting   | Feb        | 22    | 10       |
| health record at seven plants A  | Feb        | 22           | 18       | functionsN  | Jan<br>Feb  | 8        | 29<br>34 | National Geno Sciences — Charter mem-  |            |       | 10       |
| Phosphate mine at Nichols, Fla. reop-<br>ened N  | June       | 13           | 24       | Silicon: Improving silicon for defense . N<br>Stock, now at \$94/share, may be split . N                          | Mar         | 28       | 9        | ber of the Association of Biotechnology<br>Companies (table)   | Jan        | 25    | 13       |
| Phosphogypsum wastes: funding re-<br>search for use as a road base and a   |            |              |          | Stock split   | May         | 9 27     | 11<br>16 | National Semiconductor — Silicon: Improving silicon for defense N  | Feb        | 8     | 34       |
| construction material  | Apr        | 25           | 52       | Swimming-pool chemicals: Chemical<br>makers play hard-nosed polo in the   |             |          |          | National Starch & Chemical — Automo-<br>tive adhesives   |            | 28    | 10       |
| 'high-tech' styrene (charts)   | June       |              | 20       | pool (chart & table)  | Mar         | 7        | 10       | Hair-care mousses: a boost for chem-   |            |       |          |
| The recent freeze takes its toll Superior Oil acquisition proposed N   | Jan<br>May | 23           | 11       | Time-release herbicides: Lasso ala-<br>chlor herbicide  | May         | 23       | 32       | sales to paper companies up  | Mai        | 21    | 71<br>12 |
| Valspar buys U.S. and Canadian indus-  | May        |              | 4        | Waste sites cleanup costs: Seeking<br>ways to speed the cleanup (table)   | Jan         | 18       | 32       | Natural Gas Pipeline of America — Land-<br>fill gas from Calumet plant   | Jun        | e 20  | 28       |
| trial-coatings businesses; N<br>Valspar's bid for greater growth<br>(chart)                                      |            |              | 12       | - Correction  | Feb         |          | 5        | Negev Phosphates — Israel Chemicals<br>Ltd.: A bold expansion policy abroad  |            |       |          |
| Mobil Oil - Methanol warnings for cus-   | May        |              |          | proved (chart)  | Apr         | 11       | 33       | pays off for ICL   | Feb        | 8     | 21       |
| tomers   | Apr        | 11           | 23       | Witco acquires certain assets of spe-<br>cialty polymeric plasticizer busi-                                       |             |          |          | Neste — Acquisition of Unifos Kemi ap-<br>proved by Swedish government N   | Apr        | 4     | 18       |
| certain genetic diseases by "reading"<br>an individual's DNA   | Mar        | 21           | 78       | nessR   | Jun         | e 13     | 17       | LPG to make ethylene: Algerian capac-<br>ity may be a bonanza for Europe's   |            |       |          |
| Molecular Genetics — Making new ven-   |            |              |          | Monsanto Enviro-Chem — Clay settling<br>technology called electroendosmosis<br>will be tested at Mobil Chemical's |             |          |          | petrochemical makers (chart)<br>Offer to buy Esso Chemicals' ethylene-   | Jan        | 25    | 16       |
| tures go<br>Monoclonal Antibodies — Medical diag-  |            | 11           | 46       | Fort Meade, Fla. phosphate mine N   | Jan         | 25       | 19       | propylene plant at Stenungsund . N   | Ma         |       | 19       |
| Self diagnostic ovulation test goes to   | Feb        | 29           | 31       | Montedison — Acna see under name  | Jun         | e 27     | 16       | Saudi Árabia considers MTBE unit N<br>New Brunswick Scientific — Charter   | Jun        | e 27  | 90       |
| the market   | Apr        | 25           | 30       | Enters consumer detergent market by<br>buying 61% interest in Mira Lanza N  | Mar         | y 30     | 18       | member of the Association of Bio-<br>technology Companies (table)  | Jan        | 25    | 13       |
| is on the way  | Jan        | 25           | 9        | Farmitalia-Carlo Erba see under name<br>Himont see under name   |             |          |          | New England Nuclear — Medical assay<br>kits for physicians to use in prescribing   |            |       |          |
| Agent Orange: U.S. Air Force study<br>supports many views in the Agent   |            |              |          | Intermediate unit would be transferred  |             |          | 10       | treatment for women with breast can-   | F-1        | 45    | 40       |
| Orange case Agent Orange/Vietnam Experience study from CDC; Throdahl comments                                    |            | 14           | 20       | to ENI  | Apr         | 18       | 18       | Medical diagnostics: RIA products  | Feb<br>Feb |       | 16<br>33 |
| from CDC; Throdahl comments Agent Orange case  | Mai        | r 28         | 14       | Negotiating for joint ventures in China . N<br>Polycarbonate plant to be built in                                 | Ma          |          | 22       | New Power Technology — Funding for<br>Israeli route to nuclear power N   | Ma         | r 28  | 33       |
| The Agent Orange surprise  | May        | y 16<br>y 23 | 24       | Ú.S.S.R   | ı ma        | r 7      | 19       | New York City Health and Hospitals Corp.  — Former employee indicted in drug   |            |       |          |
| Tentative settlement: payments N<br>Antitrust suit against Spray-Rite Serv-                                      | ivia       | y 23         | 7        | plied to bottle producer, Cobarr N  | Jur         | ne 27    | 90       | fraud scheme R   | Ma         | y 9   | 22       |
| ices: manufacturers must still be<br>wary on resale prices   | Ma         | r 28         | 48       | Polypropylene: alleged European price<br>fixing   |             | ne 20    | 23       | New York State Energy and Development<br>Authority — Research in continuous<br>fermentation funding<br>Newhall Refinery — Tapping the hidden |            |       |          |
| ARMS R&D halted  Belgium drug acquisition, Continental   | Jun        | ne 6         | 21       | cules: largest foreign investment in  | 1           |          |          | Newhall Refinery — Tapping the hidden  | ret        | 22    | 42       |
| Pharma R Jan 25-17, N<br>BioTechnica signs pact to develop   | Jan        | 25           | 57       | U.S. in 1983  | Jur         | ne 13    | 40       | Calif. refinery  |            | ne 20 | 28       |
| pesticideH   | Apr        | r 11         | 23       | another loss  | l Fe        | b 15     | 18       | Nihon Inorganic Color and Chemical —<br>Du Pont patent infringement suit over  |            |       |          |
| Bone regeneration research agree-<br>ment with Collagen  | Apr        | r 25         | 30       | son cuts its losses   | Ma Ma       | y 16     | 29       | pigments still pending   | Jur        | ne 6  | 17       |
| Butvar polyvinyl resin expansion in<br>Springfield, Mass   | Apr        | r 4          | 16       | U.S. sales rep, Cambo Inc., will pitch<br>elastomers to Detroit   | Jai         | n 18     | 16       | Japan  | Ma         | r 7   | 33       |
| Catalytic process for adipic acid N<br>CMA annual meeting consensus: 'En-  | Api        |              | 30       | Montefibre — PET polymer and preform to be supplied to Cobarr   |             | ne 27    | 90       | Nippon Telephone and Telegraph — Eval-<br>uating polysilanes as lithographic ma-   |            |       |          |
| oy 1984'   | Jur        | ne 13        | 16       | Morgan Stanley — A clearinghouse for<br>natural gas: Morgan Stanley with  | h<br>h      |          |          | Nissan Chemical Industries — H-PO-   | Ma         | y 30  | 23       |
| Conferences: Making a university/<br>industry match  | Fel        | b 15         | 20       | Transco Energy and Akin, Gump<br>Strauss, Hauer & Feld plans to open  | ),          |          |          | makers look again at the hemihydrate   |            | - 44  | 48       |
| Counterfeit-detection training of foreign<br>managers  | Ма         | ay 2         | 16       | the U.S. Natural Gas Clearinghouse  | . Ju        | ne 27    | 9        | Swimming-pool chemicals: U.S. Com-   | Me         | ır 14 | 40       |
| EPA R&D: chemical majors join push   |            | r 11         | 58       | Morton Thiokol — Common stock drops<br>Dow is buying into Morton Thiokol !  | N Ap        | or 18    |          | merce Dept. rules against Japanese<br>imports  | Ma         | 18 7  | 10       |
| for more funding   |            |              |          | Du Pont drives for a comeback in<br>photopolymers with AT&T Techno  | n           |          |          | Nisso Petrochemical Industries — Ethyl-  | Ma         |       | 33       |
| tional? Supreme Court will decide<br>Monsanto-EPA dispute  | Ms         | ar 7         | 14       | ogy contract  |             | ay 2     | 9        | Nitto Chemical Industry — Acrylamide   |            |       |          |
| Fernandez, Louis at CMA annual meet-<br>ing: Good public works need a strong                                     |            |              |          | Equipment and CGS Prodotti Chin   | 1-          | h        |          | plant will use biocatalyst N<br>Bacteria that catalyze acrylamide pro-   |            | r 11  | 30       |
| public voice — Other views   | Ju         | ne 13        | 3        | Wasatch Div.: A chemical push from  | H Fe        | eb 22    |          | duction  | Ma         | ay 16 | 44       |
| steering committee for voluntary   | 1          | ay 16        | 22       | MotorTech — Koppers' high-tech hun  | t: Ap       | or 4     | 1 12     | Quebec lures industry with cheap   | Ma         | ay 16 | 29       |
| Cleanup program  | Ma         | ay 10        |          | joint venture of Kopvenco, Cran<br>Cams, Continental and Henry Yunick   | e F         | eb 29    | 9 10     | hydropower<br>Nordic America — Lee, Steven James,  | Ma         | ay 23 | 22       |
| Genetic changes persist in the off-<br>spring of plants  | Fe         | eb 22        |          | MultiClean — Fuller, H.B. puts busines  | S           | or 1     |          | former v-p to be president of Repligen N   | Ma         | ay 16 |          |
| Heat-transfer fluids prices N<br>Herbicide Roundup: Monsanto wins  | Ja         | in 11        | 25       | up for sale<br>Multifuel Boilers — Solids Circulation   | n           | pi 1     | . 11     | Nordisk — Factor VIII race<br>Norsk Hydro — Offer to buy Esso Chem-  | Ma         | ау 9  | 17       |
| Herbicide Roundup: Monsanto wins<br>Round One in patent tiff with Stauffer<br>over glyphosate herbicide in U.K N | Fe         | eb 22        | 9        | Boiler promises to burn cheap fue<br>efficiently (diagram)  | . Ju        | ine 2    | 0 44     | icals' ethylene-propylene plant at Sten-<br>ungsund  | M          | ar 7  | 19       |
|  |            |              |          |   |             |          |          |  |            |       |          |

| Norsk Hydro Fertilizers — Hemihydrate  |                 |     |          | Distributor relations: Getting closer to   |      |          |          | Potash search in Michigan   | Mar        | 14       | 40       |
|--|-----------------|-----|----------|--|------|----------|----------|---|------------|----------|----------|
| process will be offered by Jacobs<br>Engineering: H <sub>3</sub> PO <sub>4</sub> makers look again |                 |     |          | distributors — Viewpoint   | Jan  | 11       | 34       | Potash solution mining test plant in<br>Grant Township, Mich. planned R             | Mar        | 7        | 16       |
| at the hemihydrate route   | Mar 1           |     | 48       | Heat-transfer salt trademark rights  |      |          |          | Risk assessment   | Feb 2      |          | 29       |
| - Letter<br>Jacobs Engineering licenses proc-  | Apr 2           | 5   | 5        | bought from Du Pont and Coastal R<br>Hunt Chemical: Olin bids for full owner-        | Jan  | 4        | 15       | Sarni's star rises N<br>Strategic maneuvering: A warm wel-                          | Feb        | 1        | 9        |
| essesN   | Mar             | 7 : | 30       | ship N<br>A take-it-or-leave-it offer N  | Apr  | 4        | 9        | come on Wall Street   | Mar        | 7        | 14       |
| North Eastern Pharmaceutical — EPA sues over dioxin contamination in                               |                 |     |          | A take-it-or-leave-it offer N<br>Some of Hunt's minority stock-                      | Apr  | 11       | 11       | Swimming-pool chemicals: Chemical<br>makers play hard-nosed polo in the             |            |          |          |
|  | Feb             | 1   | 12       | holders seek to block merger N   | June | 20       | 13       | pool (chart & table)  | Mar        | 7        | 10       |
| Northern Liquid Fuels — The looming  |                 |     |          | Indy Electronics' 45% interest bought:<br>In electronic chemicals, a triple-         |      |          |          | Time-release herbicides   | May 2      | 23<br>21 | 32<br>65 |
| LPG glut. John M. Winton (charts, table, map)  | May             | 2 : | 32       | threat contender   | Mar  | 14       | 11       | PPM — PCB destruction: Centofanti com-  | ividi .    |          | 00       |
| Northern Peat — SFC readies price and  |                 |     |          | Pollak, Edward B., president of the In-<br>ternational Group: Pollak — Olin's        |      |          |          | ments on chemical methods for PCB destruction                                       | June :     | 20       | 39       |
| loan support for energy project in Maine   | Apr 1           | 1 ! | 58       | man on the international front   | Feb  | 15       | 42       | PQ — Silicate products prices N   | June       | 6        | 35       |
| Northern Petrochemical — Additive pack-  |                 |     |          | Safer system for tracking toxic fumes  | Mar  | 7        | 36       | PVS Chemicals — Sulfuric acid prices . N<br>Pace Co. — Ethylene glycol: Massive re- | May        | 2        | 31       |
| age: a new wrinkle in antifreeze mar-<br>kets  | Feb             | 8   | 24       | at Lake Charles, La  |      |          |          | structuring in a 'crummy business'  |            |          |          |
| Emyigne giycoi   | Mar             | 7   | 34       | joint venture in Alabama onstream R  | June |          | 15       | (charts)  | Mar        | 7 22     | 32<br>28 |
| Letter     EO and derivatives prices N   | Apr<br>June 2   | 4   | 5        | Sodium chlorate prices N<br>Sodium chlorite: registration for all                    | Mar  | 14       | 34       | Ethylene markets remain sluggish N<br>Pace National — Algae could halve the         | Feb :      | 22       | 20       |
| Illinois hazardous waste site suit set-  |                 |     |          | grades expanded  | Apr  | 25       | 22       | cost of nitrogen fertilizer N<br>Pacific Chemical Products — Damage                 | Apr        | 11       | 30       |
| Norton — Alumina chemicals: cera.nic   | June 1          | 3   | 40       | makers play hard-nosed polo in the   |      |          |          | suit filed against the installers and pro-  |            |          |          |
| proppant for gas wells   | May 2           | 3   | 21       | pool (chart & table)   | Mar  | 7        | 10       | viders of new telephone system R  | June       | 13       | 17       |
| Packing's growing role in distillation<br>(diagram)  | June 1          | 3   | 18       | Omnimax — Thermoelectric generators:<br>Winning more watts from waste heat           |      |          |          | Pacific Gas & Electric — Where did nuclear plants go wrong?                         | June       | 27       | 18       |
| Norton Simon — Kohlberg, Kravis &  |                 |     |          | (diagram)  | June | 6        | 26       | Pacific Gas Transmission — Angus Chem-  |            |          |          |
| Roberts makes acquisition offer for<br>Esmark, including Norton Simon N                            | May             | 9   | 11       | Oncogen — Medical diagnostics: mono-<br>clonal-antibody-based products               | Feb  | 29       | 34       | ical see under name<br>Pacific Northwest Laboratory — A vote                        |            |          |          |
| Nova — Canada's Nova shines, but less<br>brightly  |                 |     | 0.0      | Oppenheimer — Chlor-alkali market  | Feb  | 1        | 26       | for dry storage of spent nuclear fuel . N   | May        | 2        | 37       |
| Canada's synfuels: a cautious phoenix  | June 2<br>Feb 2 |     | 88<br>40 | Orgenics — Israel's thriving biotech in-<br>dustry                                   | June | 6        | 28       | Packaged Facts — Household insecticide sales will soar N                            | May        | 30       | 24       |
| Husky Oil see under name   |                 |     |          | dustry   |      |          |          | Pall — Investor relations: In specialty   |            |          |          |
| Nova Pharmaceutical — Acquires rights<br>from Univ. of Minnesota to market                         |                 |     |          | diagnostic-grade bulk enzymes<br>Ormat Turbines — Solar power plant for              | Feb  | 29       | 32       | chemicals, Pall takes the cake for com-<br>munications (table)                      | Feb        | 15       | 36       |
| opiate drugsN<br>Novacor Chemicals — Canada's Nova   | Mar 1           | 4   | 46       | southern California N  | Jan  | 4        | 29       | Pantasote — PVC prices N  |            | 18       | 20       |
| shines, but less brightly  | June 2          | 7   | 88       | Orsynex — Custom drug houses: The  | May  | 9        | 46       | Purchases Flexhide roofing membrane<br>business of United States Mineral            |            |          |          |
| Novo Industri — How genetic engineers  | Mar 2           |     | 79       | new entries  | wwy  |          | 40       | Products  | Mar        |          | 18       |
| will customize proteins Insulin to be made in Canada N   | Feb 2           |     | 16       | market for chemicals and hardware (table)  | Feb  | 29       | 30       | Vinyl films prices  | Feb        | 29       | 23       |
| Nuclear Associates — Plastic radiation<br>barrier, "Clear-Pb"                                      | Apr 2           | 36  | 69       | Test for herpes nears commercializa-   |      |          |          | shale: SFC readies price and loan   | Apr        | 11       | 58       |
| Nuexco — Uranium oxide prices N  | Mar 2           |     | 42       | Osce Fuel — Joint venture to research  | June | 13       | 34       | supports N Project put on hold N  | June       |          | 7        |
| Uranium producers: Far-off silver lin-<br>ings (chart)   | Apr 1           | 11  | 12       | and develop coal-water fuelsR  Otsuka Pharmaceutical — Center for Ad-                | Feb  | 1        | 17       | Parker Chemical — Goldsberry, Ronald E.<br>president and COO: Parker's new COO      |            |          |          |
| _  |                 |     | -        | vanced Research in Biotechnology,  |      |          |          | flexes his entrepreneurial skills   | Jan        | 4        | 25       |
| 0  |                 |     |          | CARB: new biotech center allies di-  | Feb  | 22       | 16       | Parsons — New directions for engineer-<br>ing companies                             | Apr        | 4        | 30       |
| •  |                 |     |          | verse groups Owens-Corning Fiberglas — Asbestos                                      | reu  | 22       |          | ing companies   | ripi       | 7        | 00       |
| ODC - Joint venture reorganized as a   |                 |     |          | fund (table)   | Apr  | 25       | 18       | foam patent suit: Peachtree Doors<br>found guilty of patent infringement            | June       | 6        | 11       |
| wholly owned subsidiary of Dow   |                 |     |          | plastics are a hit (table)   | Jan  | 25       | 11       | Pechiney — Carbon fiber projects: Her-  | ounc       |          |          |
| Corning  | May             | 30  | 17       | Prototype home features insulation<br>with-in walls covered with poly-               |      |          |          | cules pulls out of joint venture; Pechiney teams up with Elf/Toray N                | Apr        | 18       | 28       |
| organized as a wholly owned subsidi-   |                 |     |          | urethane board   | Apr  | 11       | 15       | Greenfield aluminum smelter: Quebec   |            |          |          |
| ary of Dow Corning   | May             | 30  | 17       | Owens-Illinois — Asbestos fund (table)<br>High-barrier, multilayer plastic bottles . | Apr  | 25<br>18 | 18<br>25 | lures industry with cheap hydropower<br>Pernex — Ammonia prices N                   | May<br>Jan | 11       | 22<br>25 |
| ical method to remove PCBs N   | June            |     | 25       | National Distillers confirms buy out of  | our  | 10       | 20       | Penick & Fold — Modifying starch to make  |            |          |          |
| U₃Oa-recovery process  | June            | 6   | 25       | 50% share of National Petro Chem-  | Jan  | 25       | 17       | products used in the paper and textile<br>industry and the food industry            | Apr        | 4        | 39       |
| buy Durel polyarylate engineering-   |                 |     |          | icals  | our  | 2.0      |          | Pennwalt — Amylphenol prices N  | May        | 16       | 51       |
| resins operation   | June            | 20  | 13       |  | Mar  | 14       | 50       | Chlorine prices   | Mar        |          | 65<br>16 |
| converted to membrane cells R  | June            |     | 17       | EVAL.<br>Oxford Venture Partners — Koppers in-                                       |      |          |          | Ozark-Mahoning see under name   |            |          |          |
| Chlor-alkali prices N<br>Chlor-alkali: Squeezing earnings from a                                   | June            | 6   | 35       | vestment   | Feb  | 29       | 11       | Pennsylvania antitakeover law, Share-<br>holder Protection Act, signed N            | Jan        | 4        | 9        |
| low-growth business (charts & table)   | Feb             | 1   | 26       | Chem: plans to restart mothballed plants   | Jan  | 25       | 12       | Pennzoil — Leveraged buyout agreement   |            |          | -        |
| Chlorine prices  | Feb             | 29  | 23       | Ozark-Mahoning — Sodium sulfate ex-<br>pansions: Moving up in the salt-cake          |      |          |          | with Getty: Getty's chemical units may<br>go on the auction block N                 | Jan        | 11       | 9        |
| rules phosphate processors must  |                 |     |          | business N   | Apr  | 4        | 9        | Pentagon Plastics — Decadex Firecheck:  |            |          |          |
| pay all the costs  | June            | 6   | 15       | Sodium sulfate/salt cake: 'We can sell more salt cake'                               | Арг  | 11       | 16       | asbestos containment  | June       | 20       | 33       |
| hydrate route  | Mar             |     | 48       | more dan ound  | Apr  |          | 10       | sion bought   | Apr        | 25       | 11       |
| Letter     PVC makers are smiling again (chart).   | May             | 9   | 5 24     | <b>D</b>   |      |          |          | Pepsi-Cola — NutraSweet advertising is<br>misleading complaint charges              | Jan        | 25       | 13       |
| PVC prices   |                 | 18  | 20       | P  |      |          |          | Pet Chemical — Limonene-based sham-   | •          |          |          |
| "S-Area" dump site in Niagara Falls,<br>N.Y.: Occidental will pick up a clean-                     |                 |     |          | PD Glycol — Ethylene glycol unit at Beau-  |      |          |          | poo, dip and aerosol spray that kills<br>fleas and ticks on dogs and cats           | June       | 27       | 20       |
| up tab N   | Jan             |     | 44       | mont, Tex. Glycol plant starting up this year N                                      | Mar  | 7        | 34       | Petraigas - New Zealand methanol plant  |            |          |          |
| Solvents test data submitted to EPA . N<br>Occidental Petroleum — Joint venture                    | Feb             | 22  | 50       | PPG Industries — Adhesives makers  | Jan  | 25       | 9        | cranks up   | Mar        | 28       | 42       |
| with CE, Osce Fuel, to research and  |                 |     |          | court the clubby auto market   | Mar  |          | 10       | iect: Canada's synfuels — a cautious  |            |          |          |
| develop coal-water fuels R<br>OxyChem plans to restart mothballed                                  | Feb             | 1   | 17       | Architectural-coatings market (chart) Brominated flame retardant technology          | Apr  | 4        | 10       | phoenix   | Feb        | 22       | 40       |
| plants: There's new life in OxyChem.   | Jan             | 25  | 12       | will be licensed from Great Lakes  |      |          |          | posed   | Feb        | 22       | 20       |
| Ocean Systems Network — Diamond<br>Shamrock domestic distribution net-                             |                 |     |          | Caustic soda prices N  | Mar  | 14       | 58<br>65 | gerian capacity may be a bonanza for  |            |          |          |
| work will offer single-price, single-con-  |                 |     |          | Chlor-alkali derivatives prices N  | Mar  | 14       | 34       | Furone's netrochemical makers (chart)   | Jan        | 25       | 16       |
| tract service covering transportation. N<br>Ohio Bell Telephone — Pacific Chemical                 | Apr             | 11  | 11       | Chlor-alkali prices N<br>Chlor-alkali: Squeezing earnings from a                     | June | 9 6      | 35       | Petrocorp — Petralgas see under name<br>Petroferm — Pfizer will make and sell all   |            |          |          |
| Products files damage suit against the   |                 |     |          | low-growth business (charts & table)   | Feb  | 1        | 26       | of Petroferm's "emulsans"   | Jan        | 25       | 58       |
| installers and providers of new tele-<br>phone system  | June            | 13  | 17       | Chlorine prices Cogenerator/utility fuss over avoided                                | мау  | 30       | 24       | Petrofina UK — MTBE plant planned at<br>Lindsay refinery at Humberside N            | June       | a 13     | 20       |
| phone system   | Feb             | 16  | 16       | costs  | Feb  | 8        | 12       | Petrogen — Four wells in Arkansas to be<br>inoculated with microbial cultures       | Jan        | 26       | 58       |
| Polyolefin films capacity to be in-  |                 |     |          | distributors — Viewpoint   |      | 11       | 3        | Petrokeyma — UK know-how for ethylene   |            |          |          |
| creased  | June            | 27  | 15       | Toward closer ties with distributors .<br>EO and derivatives prices N                | Jan  |          | 34<br>16 | plant in Saudi Arabia N<br>Petroleos Mexicanos — Solid Circulation                  | Mar        | 14       | 11       |
| tronicsN   | Apr             |     | 9        | Ethylene oxide and ethylene glycol   |      |          |          | Boiler will make debut at refinery (dia-  |            |          |          |
| Caustic soda prices N  | Mar             |     | 65<br>35 | prices   | May  | 30       | 24<br>33 | gram)   | Jun        | e 20     | 44       |
| Chlor-alkali prices N<br>Chlor-alkali: Squeezing earnings from a                                   |                 |     |          | Herbicides follow the current trend  | widy | 0        | 00       | tests   | Jan        | 25       | 58       |
| low-growth business (charts & table)<br>Chlorine plant at McIntosh, Ala. will                      | Feb             | 1   | 26       | emergent herbicides (table)  | May  | 9        | 12       | of Petrolite's salesmen   | Feb        | 1        | 13       |
| replace diaphragm cells with ion ex-   | Apr             | 10  | 37       | More jobs but tight money R  |      | 23       | 17       | Illinois hazardous waste site suit set-   |            |          | 40       |
| change membranes N<br>Chlorine prices N Mar 7-24, N  | May             | 30  | 24       | PD Glycol see under name<br>PPG: On a new starting line                              | June | e 13     | 12       | tled N Petromisa — Potash project   | Mai        | e 13     | 42       |
| Cogenerator/utility fuss over avoided costs  | Feb             |     | 12       | Plastic color concentrates business to<br>be sold to Harwick Chemical N              |      | 18       | 9        | Petromont — Canadian feedstocks: con-<br>verting operations to the use of LPG       |            | 15       | 15       |
| VVIII  | 1.00            | 0   | . 2      | DO GOOD TO THAT WHO CONSTRUCTION N   | Jan  | 10       | 9        | varining operations to the use of LFG   | 1 01       |          | 10       |

| Petroquimica Cuyo — Polypropylene plan  | F-1-       | 00       | 00       | Sues Chesebrough-Pond over TV ad  |            |              |         | Paintmakers: Wallpoi 40-145 latex poly-  |               |                        |          |
|---|------------|----------|----------|---|------------|--------------|---------|--|---------------|------------------------|----------|
| proposedN<br>Petrotomics — Getty's chemical units   | Feb :      |          | 20       | claims for Vaseline Intensive Care<br>Skin Lotion   | Jan        | 18           | 18      | Polyester resin prices N   | Apr<br>June 2 | 4 27                   | 11<br>16 |
| may go on the auction block N Pfaudler — Weld-bonding technology.   | Jan        | 11       | 9        | and Chesebrough-Pond's can still  |            |              |         | Resin prices   |               | 11                     | 38       |
| Pfaudler — Weld-bonding technology,<br>Resista-Clad, acquired from Cosmos<br>Minerals N   | May :      | 30       | 34       | say they sell the best  | June :     |              | 14      | hold's new management N  | Apr 1         | 11                     | 11       |
| Pfizer — Furnaric acid prices N   | May        | 9        | 60       | Water-based inks for packages Products Research and Chemical —  | Apr        | 18           | 10      | Tapping the hidden treasure in landfill<br>gas: plastics and catalyst plant at   |               |                        |          |
| Microbial enhanced oil recovery<br>Oral diabetes medicines' product labels  | Jan :      | 25       | 58       | Gregory, George, chairman and CEO:<br>Why PRC's Gregory won CIA's award<br>Polyol, Perma-pol R p-3, may help ure-   | Apr        | 25           | 47      | Azusa, Calif. Urea and ammonia operation on the  | June 2        | 20                     | 28       |
| must be altered   | Apr        | 25       | 22       | Polyol, Perma-pol R p-3, may help ure-<br>thane withstand hostile environment   |            |              |         | auction block N Renault — French capital investment N  |               | 2                      | 9        |
| Terre Haute, Ind  | Mar :      | 28       | 19       | in the oil industry   | Apr        | 25           | 16      | Lead-free gasoline controversy N<br>Repligen — Lee, Steven James, former   | Mar 1<br>June |                        | 28<br>18 |
| Salt substitute, potassium benzoate, in-<br>troduced  | Mar        | 14       | 24       | Promega Biotec — Chinese joint ven-<br>ture with Louyang District Foodstuffs  |            |              |         | Repligen — Lee, Steven James, former<br>v-p at Nordic America, to become   |               |                        |          |
| Strategic planning conference: How the experts plan strategy (table)  | Mar        |          | 11       | Company   | Jan        | 11           | 16      | president  | May 1         | 16                     | 11       |
| Pharmacia — Joint venture with Imre to  | PAICE      | 20       | **       | to manage design dataN<br>Prudential-Bache Securities — Siegler   | June       | 6            | 25      | Lee targets "mundane products"   | May           | 2                      | 13       |
| research technique that would purify<br>and treat blood after it is removed from  |            |          |          | Prudential-Bache Securities — Siegler<br>comments on kilogram quantities of   |            |              |         | Research Corp. — Conferences: Making<br>a university/industry match  | Feb 1         | 15                     | 20       |
| the body  | Feb        | 1        | 30       | monoclonals   | Mar        | 28           | 30      | Research Corporation Trust: the U.S. and   |               |                        |          |
| William J. will become Repligen's exec-   |            |          |          | nology data   | Mar        | 7            | 22      | U.K. join to spur European technol-<br>ogy   | June          | 6                      | 25       |
| utive v-p, corporate development and finance  | May        | 2        | 13       | Public Service Electric & Gas — Tapping<br>the hidden treasure in landfill gas: Cin-  |            |              |         | Research Corporation Trust — The U.S. and U.K. join to spur European technol-  |               |                        |          |
| Phibro-Salomon Corp. — Group of execu-<br>tives and employees consider buy-out  |            |          |          | naminson, N.J. venture to be expanded .   | June       | 20           | 28      | nogy   | June          | 6                      | 25       |
| of most of the commodity-trading busi-  |            |          | •        | Public Service of Indiana — Marble Hill<br>unit cancellation may exert further  |            |              |         | chemical causes of infertility   | Feb           | 15                     | 26       |
| ness  | May        | 30       | 9        | pressure on uranium markets N<br>Utilities seeking government help from   | Jan        | 25           | 24      | Resource Planning Consultants — NGLs-<br>LPG study: The looming LPG glut. John   |               |                        |          |
| dumping N<br>Phillips Chemical — Borger, Tex. units for   | Feb        | 1        | 25       | financial debt created by building  |            | •            |         | M. Winton (charts, table, map) Reuter Laboratories — Nucleopolyhedro-  | May           | 2                      | 32       |
| synthetic elastomers will be closed N   | Mar        |          | 11       | nuclear power plants N<br>Public Service of New Hampshire — Util-   | May        | 2            | 44      | sis virus zaps gypsy moths (table)  Revion — Acquisition of Dr. L. Zambeletti  | Apr :         | 25                     | 19       |
| Grigsby comments on prices  | Feb        | 29<br>14 | 6<br>50  | ities seeking government help from fi-  |            |              |         | Pursued  | Jan           | 4                      | 17       |
| HDPE for plastic bottles  | Jan<br>Jan | 11       | 11       | nancial debt created by building nuclear power plants   | May        | 2            | 44      | Factor VIII: patent suit with Genentech<br>and Chiron  | Jan           | 11                     | 24       |
| Xylene prices   |            |          |          | ments on making new ventures go   |            |              |         | Grant to support research at Rockefeller   | Jan           | 11                     | 24       |
| MEOR<br>Informs SFC it will no longer seek loan   | Jan        | 25       | 59       | (chart) Purvin & Gertz — The looming LPG glut.  | Apr        | 11           | 44      | Univ. to find alternatives to animal tests   | May           | 23                     | 35       |
| or price guarantees N<br>Pilko & Associates — Louisiana study: A  | Mar        | 7        | 40       | John M. Winton (charts, table, map)   | May        | 2            | 32      | Issuing new common shares in ex-<br>change for debentures N  | May           | 2                      | 9        |
| plan to rescue the Louisiana chemical   |            |          |          | Pyropower — Fluidized-bed boilers   | June       | 20           | 44      | Scale-up for Scripps method for factor   |               |                        |          |
| industry (table)  | Jan<br>Apr | 11       | 10<br>38 | Q   |            |              |         | VIII   | Jan           | 11                     | 24       |
| Pittsburgh Corning — Asbestos fund  | Apr        | 26       | 18       | -   |            |              |         | Reynolds Metals — Alumina chemicals:<br>Looking for an upturn  | May           | 23                     | 20       |
| (table)   | Api        | 23       | 10       | Qapco - Feedstock unit for Omm Said   |            |              |         | Aluminum forecast bullish N  | Jan           | 4                      | 20       |
| Leveraged buyout of Dart & Kraft's plastic specialties businesses by an   |            |          |          | petrochemical complex N<br>Qatar General Petroleum — Omm Said   | Mar        | 7            | 19      | Rhone-Poulenc — France slows capital investment in chemicals N   | Mar           | 14                     | 28       |
| employee investor group   | Apr        | 18       | 12       | petrochemical complex to get new  |            | _            |         | Lysine plants planned in France and U.S  | May           | 9                      | 25       |
| co's domestic Isofoam urethane foam   |            |          |          | feedstock unit  | Mar        | 7            | 19      | Phenol capacity cut N  | Feb           | 1                      | 20       |
| business  | Feb        | 15       | 16       | roe Chemical and General Chemicals  | June       | - 00         | 00      | Sales and earnings 1983 N<br>Riley Stoker — Fluidized-bed boilers  | Apr<br>June   | 18                     | 28<br>44 |
| diesel additives and printing-plate   |            |          |          | completed   | -          |              | 23      | Riley Stoker — Fluidized-bed boilers Rintekno Oy — Battelle collaborating on   |               | 4                      | 28       |
| cleaners  | Mar        | 14       | 55       | between supplier and customer   | Feb<br>Feb | 29           | 32      | solvent pulping process  Roberts Consolidated Industries — Ac-   | Jan           |                        |          |
| photography business  |            | 29<br>22 | 12<br>28 | Quaker Oats Chemical division sold to   |            |              |         | quired by Britain's Beecham Group. N<br>Robertson, Coleman and Stephens —  | Mar           | 21                     | 20       |
| Specialty urethanes prices N<br>Polyacryl Iran — Iran settles with Du   | Feb        | 22       | 20       | Pentech   | Apr        |              | 11      | Robertson, Coleman and Stephens — Factor VIII race Pobles A H Acquires Outstee Madi  | May           | 9                      | 17       |
| Pont over expropriation of joint ven-<br>ture   | Jan        | 11       | 16       | natural gas pipeline  | June       | 27           | 90      | Robins, A.H. — Acquires Quinton Medi-<br>cal   | Jan           | 18                     | 18       |
| Polymer Development Labs Synthetics   | Apr        | 25       | 54       | proposes natural gas pipeline N   | June       | 27           | 90      | Rockwell International — Advanced-flash<br>hydropyrolysis: testing out a new gasi-   |               |                        |          |
| for restoring historic facades  | Jan        | 18       | 16       | Quenord — Quebec lures industry with<br>cheap hydropower: sodium chlorate   |            |              |         | fication concept N   | Mar           | 7                      | 30       |
| Correction  | Feb        | 22       | 5        | plant capacity to be doubled  | May        | 23           | 22      | Rocketdyne Div.: A chemical push from<br>the MX  | Apr           | 4                      | 12       |
| lower cost shield from radiation  | Apr        | 25       | 69       | will up capacity N Quinton Medical — Robins, A.H. acquisi-  | Feb        | 15           | 18      | Rodel — Nalco acquires 20% equity N<br>Jan 4-9,  | Jan           | 11                     | 12       |
| Pontiac — Fiero model uses reinforced plastics  | Jan        | 25       | 12       | tion  | Jan        | 18           | 18      | Rohm and Haas — Funding Plant Science<br>Institute at Univ. of Pennsylvania N  | Feb           |                        | 34       |
| Potash Company of America — Potash<br>producers will petition for protection  |            |          |          |   |            |              |         | Herbicides follow the current trend to   | reu           | 0                      | 34       |
| from cut-rate offshore imports N  | Apr        | 11       | 38       | R   |            |              |         | low-till farming: the boom in post-<br>emergent herbicides (table)   | May           | 9                      | 12       |
| Potash project near Sussex, New Brunswick   | Mar        | 14       | 38       |   |            |              |         | Investor relations: In chemicals, Rohm<br>and Haas is tops in telling its story  |               |                        |          |
| World potash is moving again (chart)<br>Potash Corp. of Saskatchewan — China  | Mar        | 14       | 36       | RDI — Food irradiation  Monsanto will urge irradiating grain  | Apr        | 11           | 33      | (table)  | Feb           | 15                     | 35       |
| bids for Lanigan potash mine N  | Jan        | 18       | 20       | with electron beams as a substitute   |            | 00           | •       | lon-exchange resin plant bought from<br>Duolite International  | June          | e 6                    | 17       |
| Potash: World potash is moving again<br>(chart)   | Mar        | 14       | 36       | for EDB   |            | 22           | 9       | Medical diagnostics: Hot and tough to<br>crack — Viewpoint   |               | 29                     | 3        |
| Potlatch — Paper and plastic vie for the milk container (chart).  | Feb        | 1        | 14       | finds titanium dumping N<br>RTI — Lamb's test for reproductive ef-  | Feb        | 1            | 25      | Medical diagnostics. A red-hot mar-  | 1.00          | 20                     |          |
| Power Test — Acquisition of Getty's<br>Northeastern and Middle Atlantic mar-  |            |          |          | fects of chemicals to get three-yr  |            | 45           | 00      | ket for chemicals and hardware (table)   | Feb           | 29                     | 30       |
| keting activities, about 600 stations,  |            |          |          | validation test Radian — CHARM (complex hazardous   | ret        | 15           | 29      | Paintmakers: Ropaque OP-42 "opaque<br>polymer"   | Apr           | 4                      | 11       |
| from Texaco   | Feb        |          | 16<br>34 | air release model) system Radiation Technology — Some rays of   | Ma         | 7            | 36      | Rohm and Haas Seeds — Seed research  | right         | -                      | .,       |
| Pratt & Lambert — Paintmakers: P&L re-  | , 40.      |          |          | hope for irradiating food (chart)   | Apr        | 11           | 33      | partnership with Coker Pedigreed<br>Seed   | Jan           | 25                     | 17       |
| formulates most of its interior latex paints  | Apr        | 4        | 11       | Rand Institute — Asbestos cases: study .<br>Rawson Drug & Sundry — Acquired by  | Apr        | 25           | 18      | CR Seeds, joint venture  | Mar           | 14                     | 24       |
| Powder coatings line bought from Cook<br>Paint & Varnish N  | Feb        | 8        | 9        | McKesson  | Fet        | 1            | 9       | to be acquired by Fuel Tech  | May           | y 16                   | 24       |
| Predicasts — Electrostatic imaging  |            |          |          | magic back  | Jar        | 25           | 62      | Rollins Environmental Services — Land-<br>based incinerators licensed to burn  |               |                        |          |
| market  | Apr        | 18       | 12<br>25 | Raymond Kalser Engineers — New direc-<br>tions for engineering companies  | Anı        | 4            | 30      | PCBs   | Jun           | e 20                   | 39       |
| Pesticides: exports and imports N<br>Plastic laminates market   |            | 18       | 28<br>16 | Real Fresh — Aseptic packaging using<br>Continental Can's CONOFFAST con-  | )          |              |         | policy abroad pays off for ICL   | Feb           | 8                      | 21       |
| Plastics films: A bullish forecast for  |            |          |          | tainers that are sterilized with heat   | t          |              |         | ion exchange method of extracting<br>uranium from phosphoric acid N  | Jan           | 18                     | 38       |
| flexible films  | Feb        | 8 0      | 24       | when formed   | Jur        | y 9<br>ne 27 | 15<br>5 | Roto-Rooter — Chemed hits the acquisi-   |               | ne 6                   |          |
| Why Wall Street wants more biotech-   |            | r 7      | 22       | Recordati — Purchased by Enichimia  | 1          |              | 17      | tion trail Roulston — Ludwig comments on Motor-  |               |                        |          |
| nology data   | ma         | . /      | 26       | Redox Technologies — Ethylene glycol  | d          | 1 4          | 17      | Tech Konvenco venture  | Feb           | 29                     | 10       |
|   |            |          |          |   |            |              |         |  |               |                        | 13       |
| Looking for an upturn   | Ma         | y.23     | 20       | process: A cheaper route to glycol?  — Viewpoint  | ?<br>Ma    | r 7          | 3       | is misleading complaint charges  | Jan           | 25                     | 13       |
| Looking for an upturn  Drug patent bill passes a House committee: PMA's endorsement dis-  | Ma         |          |          | Process: A cheaper route to glycol?     Viewpoint     Ethylene glycol: Massive restructur.  | Ma         | r 7          | 3       | Royal Crown — NutraSweet advertising<br>is misleading complaint charges<br>Royal Dutch/Shell Group — Offer for<br>Shell Oil shares 'held in abeyance' as |               | 25                     | 13       |
| Looking for an upturn.  Drug patent bill passes a House committee: PMA's endorsement disavowed.  EDB-laced muffin mix recalled from | Ma<br>Jur  | ne 20    | 74       | process: A cheaper route to glycol?  — Vlewpoint  Ethylene glycol: Massive restructuring in a crummy business; (charts)  Reed Lignin — Lignosulfonates: Com | Ma<br>Ma   | r 7          | 32      | Delaware court rules that \$58/share<br>price wasn't realistic   | Ma            |                        |          |
| Looking for an upturn. Drug patent bill passes a House committee: PMA's endorsement disavowed.  N                                   | Ma<br>Jur  | ne 20    |          | process: A cheaper route to glycol?  — Viewpoint.  Ethylene glycol: Massive restructur- ing in a 'crummy business' (charts)                                 | Ma<br>Ma   | r 7          |         | Shell Oil shares held in abeyance as   | Ma:           | y 16<br>ar 28<br>ay 30 | 21       |

| Rubicon — Maintenance painting: Num-   |       |       |          | of theophylline antibronchial drug.<br>Teho-Dur, withdrawn                              | Feb       | 22      | 18       | Greece: Papandreou's squeeze drives drug firms out  | Feb   | 8        | 15  |
|--|-------|-------|----------|---|-----------|---------|----------|---|-------|----------|-----|
| bers on the payoff — Du Pont's pro-<br>gram (chart)  | Apr ' | 18    | 48       | Sears, Roebuck — Warning to consum-<br>ers involving the use of Tri-Poxy garden         |           |         | 4.7      | Industrial businesses to be sold to<br>Emerson Electric   | Jan 1 | 8        | 9   |
| ward to a good year  | Feb : | 8     | 17<br>19 | sprayers  | June      |         | 17       | Medical diagnostics. A red-hot market<br>for chemicals and hardware (table)   | Feb 2 | 29       | 30  |
| _  | 100   | 2.0   | 10       | Chemical  | June      |         | 18       | Smooth-On — Synthetics for restoring<br>historic facades  | Apr 2 | 25       | 54  |
| S  |       |       |          | tion rights for new expandable plastic . N<br>Setpoint — Software-hardware agree-       | May       | 30      | 9        | Snia BPD — Dividend paid for first time in nine years   | May   | 16       | 29  |
| SAE Magnetics - MCI Rigid Disc, joint  |       |       |          | ment with Honeywell N<br>Sewell Plastics — Budde comments on                            | Apr       | 4       | 34       | Snia Fibre — Rayon filament plant at Rieti<br>canceled N  | Jan   | 18       | 20  |
| venture, will convert aluminum smelter<br>to make magnetic discs.  | June  | 13    | 34       | PET applications in the food market   |           | 18      | 26<br>50 | Snia Viscosa see Snia BPD<br>Societe d'Analyse Financiere et Economi-   |       |          |     |
| SCA Chemical Services — Delay but no<br>dismay for ocean incineration  | May   |       | 14       | Shaanxi Pharmaceuticals Bureau — Bio-<br>gen forms joint venture                        | Jan       |         | 16       | que — Stam comments on CdF Chimie<br>Societe Nationale de l'Amiante — Pilot   | Apr   | 18       | 30  |
| Land-based incinerators licensed to<br>burn PCBs   | June  |       | 39       | Shanghai Electrical Machinery — Elec-   | oun       | **      |          | plant to produce 'safe' asbestos fiber . N<br>Canada's bid to regain U.S. asbestos  | Feb   | 15       | 33  |
| SCA Services — Boren comments on Du<br>Pont's wastewater venture   | June  |       | 11       | tron beam system bought from Energy<br>Sciences   | May       | 9       | 33       | markets   |       | 22<br>14 | 14  |
| Waste Management's acquisition bid could strengthen both firms (chart)   | June  |       | 17       | Sharjah ammonia and urea project N  | Feb       | 1       | 20       | Solem Industries — Alumina chemicals:<br>Looking for an upturn  | May   |          | 20  |
| SCM — Full ownership of Sylvachem ac-  |       | 15    | 11       | Shell — Aromatics prices N Benzene prices N Cortez CO <sub>2</sub> pipeline starts up N | Feb       | 14      | 34<br>25 | Solid Circulation Systems - Multifuel   | May   | 2.0      | 20  |
| quired: SCM's bet on tall oil specialties .<br>Glidden: Architectural-coatings market                                    |       |       |          | Ethylene glycol: Massive restructuring  | Jan       | 4       | 20       | Boilers, joint venture, promotes Solid<br>Circulation Boiler (diagram)  | June  | 20       | 44  |
| (charts) Titanium dioxide plants in U.K. and   | Apr   | 4     | 10       | in a 'crummy business' (charts)   | Mar       | 7       | 32       | Soltex Polymer — Blackshear on inven-<br>tories   | Feb   | В        | 28  |
| Australia bought from Laporte Indus-<br>tries  | Apr   | 25    | 25       | Newton comments on prices   | Feb       | 8<br>29 | 13       | Solvay — Polypropylene: alleged Euro-<br>pean price fixing  | June  | 20       | 23  |
| SGD Glass — Glass container technology<br>N<br>SKS Technik — Synthetics for restoring                                    | Mar   | 28    | 33       | Octane improver, PDP-5400 N<br>OxyChem may buy VCM unit at Norco,                       | Арг       | 11      | 38       | pany withdraws application for aid from   |       |          |     |
| historic facades   | Apr   | 25    | 54       | La.<br>Polypropylene: alleged European price  | Jan       | 25      | 12       | SFC   | Jan   | 4        | 44  |
| SRI International — Ordered polymers research  | Apr   | 11    | 35       | fixing  | June      | 20      | 23       | be a bonanza for Europe's petrochemi-<br>cal makers (chart).  | Jan   | 25       | 16  |
| Swimming-pool chemicals markets (chart & table)  | Mar   | 7     | 10       | capacity upped  | Feb       | 15      | 16       | Southern California Edison — Solar power plant for southern Calfornia   | Jan   | 4        | 29  |
| Sabre Associates — Plastics growth in housing  | May   |       | 18       | ware and software clash The recent freeze takes its toll                                | Jan       | 25      | 20       | Southern Pacific — Another shipper/<br>railroad brawl   |       | 15       | 14  |
| Senzer comments on Dart & Kraft's plastic specialties  | Apr   | 18    | 13       | Royal Dutch offer for Shell shares 'held<br>in abeyance' as Delaware court              | oan       |         |          | Southern Research Institute — Time-<br>release herbicides; fluridone-containing   | ,     |          |     |
| Safer Emergency Systems — Computers<br>on the track of toxic fumes   | Mar   |       | 36       | rules that \$58/share price wasn't  | Man       | 16      | 22       | polycaprolactone fibers   | May   | 23       | 32  |
| Saint Gobain Desjonqueres — Glass con-<br>tainer technology N  |       | 28    | 33       | realistic Tapping the hidden treasure in landfill                                       |           | e 20    | 28       | Southport Group — Inventory-carrying responsibility shifting to chemical distributors   | Feb   | 8        | 33  |
| St. Gobain Vitrage — Antilacerative coatings for auto windshields N  |       | 23    | 25       | gas: refinery at Wilmington, Calif.  Temana International will merge with               |           |         |          | tributors Southwest Flesearch Institute — Ammonia from wet air by use of silica foam sub-   | 100   | 0        | 33  |
| St. Regis Paper — SCM acquires full  | May   | 23    | 25       | Akzo Consumer Products N<br>Shell Canada — Canada's synfuels: A                         |           | / 23    | 18       | strates   | Feb   | 1        | 30  |
| ownership of Sylvachem: SCM's bet on tall oil specialties  | Feb   | 15    | 11       | Cautious phoenix Oil sands expansion in Alberta N                                       | May       | 22      | 40<br>25 | process is a result of U.S. Navy sponsored researchN  |       |          | 0.4 |
| Salomon Brothers — Kaufman discusses<br>prime interest rate  | Apr   | 18    | 13       | Scotford, Alta. complex: styrene mono-<br>mer plant nears completion N                  | Jan       | 4       | 16       | Grouts for use with jet injection device  | Apr   | 4        | 34  |
| Phibro-Salomon Corp. see under name<br>Sandia Laboratories — Evaluating poly-  |       |       |          | Shell Canada Resources — Styrene com-<br>plex, joint venture with Nova                  | Jun       | e 27    | 88       | speed structural repairs  | Mar   | 7        | 30  |
| silanes as lithographic materials  Sandoz — Purchases the product lines  |       | / 30  | 23       | Shell Chemicals U.K. — Huntsman<br>Chemical will take over 20,000 metric                |           |         |          | wood unpalatable  | Feb   |          | 32  |
| and technology of Arkansas Co R<br>Sales and earnings, 1983 N  | Feb   | 8     | 16<br>18 | tonsiyr of polystyrene manufacturing  | Ma        | y 2     | 20       | Spray-Rite Services — Monsanto antitrust  | Feb   | 1        | 16  |
| Santek — Acquires license to test Shively<br>ethanol-making process  | Mai   | 21    | 19       | Sherwin-Williams — Architectural-coat-<br>ings market (charts)                          | Apr       |         | 10       | suit: manufacturers must still be wary<br>on resale prices  | Mar   | 28       | 48  |
| Saskatoon Chemical — Swimming-pool<br>chemicals: calcium hypochlorite plant  |       |       |          | Diamond, T.L. purchases assets of<br>zinc-oxide manufacturing facility at               |           |         |          | Squibb — Drug patent bill passes a<br>House committee: PMA's endorsement  |       |          |     |
| in Saskatoon, Sask.  — Correction  | Mar   |       | 11       | Hillsboro, III  | Apr       | 11      | 23       | Medical diagnostics. A red-hot market   | June  | 20       | 74  |
| Saudi Basic Industries Corp. — Methanol to be purchased by Italy's Enichem;  |       | , -   |          | saccharin N   | Jar       | 1 4     | 16       | for chemicals and hardware (table) .<br>staley, A.E. — Commodities from bio-  | Feb   | 29       | 30  |
| MTBE unit considered N<br>Saudi Pharmaceutical Industrial — Drug   | Jun   | e 27  | 90       | Shikoku Chemicals — Swimming-pool chemicals: U.S. Commerce Dept. rules                  |           |         |          | mass.<br>High-fructose corn syrup capacity at   | Apr   | 4        | 36  |
| unit for Saudi Arabia N<br>Saudi Yanbu Petrochemical — Saler sys-  | Feb   | 8 0   | 17       | against Japanese imports Shin-Etsu — PVC makers are smiling                             | Ma        |         | 10       | Loudon, Tenn. plant expansion R<br>Standard Brands Paint — Architectural-   | May   | 2        | 19  |
| tems for petrochemical complex   | Ma    | r 7   | 37       | again (chart)<br>Shin-Etsu Handotai — Partner in Dow                                    | Apr       | 4       | 24       | coatings market (chart) Standard Chlorine Chemical — Hydro-   | Apr   | 4        | 10  |
| electrostatic technology N Mar 28-9, Schering-Plough — Drug patent bill  | Apr   | 4     | 11       | Corning's Hemlock Semiconductor sub-<br>sidiary   | Ma        | r 7     | 16       | chloric acid prices N<br>Standard Oil of California — Chevron   | June  | 27       | 16  |
| passes a House committee: PMA's  | live  | no 20 | 74       | Silicon plant to be built at Livingstone,<br>Scotland                                   | Ma        |         | 19       | Chemical see Chevron Chemical   |       |          |     |
| endorsement disavowed N<br>Licensed to market Biogen's alpha<br>interferon N   |       | ne 20 | 74       | Shintech — PVC capacity at Freeport, Tex. to be boosted                                 | Ma        | r 14    | 24       | Chevron Corp., new name effective<br>July 1, ratified by stockholders . N<br>Gulf Oil merger: A merger for oil, not<br>chemicals? (chart) | May   | 9        | 11  |
| Schlumberger - Folding Dowell into   |       | b 29  | 5        | PVC makers are smiling again (chart) Showa Denko — Japan's chemicals: Not               | Ap        | 4       | 24       | chemicals? (chart)  | Mar   | 14       | 15  |
| Dowell Schlumberger Schumacher, J.C. — Silicon-processing plant contract to Jacobs Engineering R                         |       | b 29  | 8        | well but better (charts)  | Ap<br>Ma  | 11      | 51<br>19 | Merger approved; Socal must now sell off one of its refineries N  |       | e 20     | 13  |
| Scientific Gas Products — Acquired by  | Ma    |       | 19       | Sibit — British Tioxide pursues acquisi-  | Jai       |         | 17       | McAuley discusses prime-rate hike<br>UNC Resources court settlement gives   | Apr   | 18       | 13  |
| Ashland Chemical R<br>Sciex — TAGA, "super sniffer": Taking  | Fel   |       | 17       | sigco Research — Acquired by Lubrizol   |           |         |          | Standard Oil a stake in the uranium business  | Juni  | a 6      | 9   |
| toxics testing out to the toxics   |       | y 30  |          | Egterprises   | Jai<br>Ap |         | 18<br>46 | Standard Oil (Ind.) — Stock-buying move<br>starts up the rumor mills N  | May   | 30       | 9   |
| company from Coulter Electronics . N<br>Scott Paper — Pennsylvania antitakeover<br>law, Shareholder Protection Act, sign | Fel   | b 22  | 20       | raw materials for diagnostic kits   | re        |         | 31       | Standard Oil Co. of Ohlo — Reconsider-<br>ing shale and synfuel strategies: with-   |       |          |     |
| edN  | Jai   | n 4   | 9        | Sales and earnings 1983 N<br>Signal — Fluidized-bed combustion know-                    | Fe        | b 29    | 5        | draws from Paraho-Ute project N<br>Stanford Applied Engineering — MCI   | Mar   | 7        | 40  |
| Scripps Clinic and Research Founda-<br>tion — Monoclonal antibody for factor   |       |       |          | how: joint company, Kellogg-Rust and<br>Westinghouse                                    | l Ap      | r 25    | 30       | Rigid Disc, joint venture, will convert<br>aluminum smelter to make magnetic  |       |          |     |
| VIII Seaboard — Another shipper/railroad   | Ja    | n 11  | 24       | Kellogg, M.W.: Whose NH, plant is the<br>most energy-efficient?                         | Ma        | ar 21   | 15       | discs   | Jun   | e 13     | 34  |
| brawl SeaBurn — Delay but no dismay for  | Fe    | b 15  | 14       | - Letter  |           | ne 20   | 5        | will generate electricity N<br>Statoil — Offers to become a 50% part-   | Jan   | 11       | 32  |
| ocean incineration Seaguist Valve — Ori, chairman o  | . Ma  | ay 2  | 14       | plant advances  | i M:      | ay 23   | 18       | ner in Esso Chemicals' plant at Sten-<br>ungsund N  | Mar   | 7        | 19  |
| CSMA's aerosol survey committee  |       | ay 16 | 3 21     | essing planned  | R M       | ar 28   | 19       | Stauffer Chemical — Buying 700,000 shares of its outstanding stock N  |       |          | 9   |
| Searle, G.D. — Aspartame: Community  | y     |       |          | plex at Pocatello, Idaho, expansion N<br>Sinochem — Bids for Canada's Lanigar           | N M       | ay 9    | 11       | Chlor-alkali prices N   | Jun   |          | 35  |
| Nutrition Institute files suit to ban sale F<br>Aspartame: FDA turns down demand   | S     |       |          | potash mine   | N Ja      | n 18    | 3 20     | Distributor relations: Getting closer to distributors — Viewpoint   | Jan   | 11       | 3   |
| for an aspartame hearing   | rt    | eb 29 | 9 40     | the auto adhesives business  Smith Barney — Apache Petroleum de                         | . M       | ar 26   | 3 10     | Toward closer ties with distributors .<br>Ethyl silicate unit planned at Weston,  |       | 11       | 34  |
| B. Shapiro: A sweet choice for a group president   | . Fe  | eb 8  | 8 36     | positary units to be bought   | N Ja      | in 18   | 9        | Mich  | Apr   | 4        | 16  |
| NutraSweet hits a sour note: Arizon<br>ruckus prompts controversy ove  | er    |       | E 40     | back-drug labeling change   | R Ju      | ine 20  | 23       | low-till farming: the boom in post-<br>emergent herbicides (table)  | Ma    | y 9      | 12  |
| safety<br>Searle Pharmaceutical — Court motion t   | 0     | an 2  | 5 13     | Winners and losers in the coming crisi<br>(map, tables, charts)                         | S         | eb 2    | 2 34     | Hydrochloric acid prices N May 30-24 N<br>Industriplex waste site in Woburn,  |       | e 27     | 16  |
| stop Key Pharmaceutical's marketin   | y     |       |          | (map, tables, charts)   |           | 00 2    | . 34     | Mass.: cleanup costs  | Jan   | 18       | 34  |

| — Correction  Management reorganization: Morley,   | Feb        | 8      | 5        | petitions claim foreign producers trying   |              |      |    | Texstyrene — EPS: Optimism outpaces   |   | - 1 |    |
|--|------------|--------|----------|--|--------------|------|----|---|---|-----|----|
| Management reorganization: Morley,   |            |        |          | to drive U.S. competitors out of busi-   | Jan 1        | 9    | 14 |   | Feb 2                                   | 9   | 18 |
| chairman and chief operating officer;<br>Davis and Stern vice-chairmanship                       |            |        |          | ness (chart)   | Jan I        | 0    | 14 | Thompson Chemical — Agent Orange case — Tentative settlement: pay-  |   |     |    |
| positions  | May        | 23     | 4        | Missouri N   | Feb          | 1    | 42 |   | May 2                                   | 3   | 4  |
| Medical diagnostics: Hot and tough to<br>crack — Viewpoint                                       |            |        | -        | Missouri N Great Lakes Chemical will purchase                                    |              |      |    | 3M — Contact lenses: agreement with   |   |     |    |
| crack — Viewpoint  | Feb        | 29     | 3        | Newport, Tenn. chemical production facility R                                    | hine (       | 19   | 45 | International Hydron for joint develop-   |   |     | 40 |
| ket for chemicals and hardware   |            |        |          | Medical diagnostics: monocional anti-  | June 2       | 21   | 15 | ment of manufacturing techniquesR Ocean shippers get antitrust immunity.  | Mar 1                                   | 14  | 19 |
| (table)  | Feb        | 29     | 30       | bodies in tests  | Feb 2        | 29   | 34 | Plans to launch a series of tests on the  | review:                                 |     | 4. |
| MSG output to be halted; San Jose,   |            |        | -        | Medical diagnostics: A red-hot market  |              |      |    | effects of space on processing or-  |   |     |    |
| Calif. plant to close N<br>Monsanto sues over Roundup herbi-                                     | Feb        | 29     | 5        | for chemicals and hardware (table) .<br>Synthetic Fuels Corp. — Adopts a defini- | Feb 2        | 29   | 30 | ganic materials   |   | 4   | 13 |
| cide in Germany N  | Jan        | 25     | 19       | tive schedule for awarding contracts. N  | Jan 1        | 11   | 9  | Polysilanes: polymerization catalyst . N<br>Polysilanes: Reactive silicon polymers  | Apr                                     | 18  | 37 |
| cide in Germany  |            |        |          | Faces cuts in funding N  | May a        | 23   | 40 | cause a stir  | May :                                   | 30  | 22 |
| tiff over almhoeste herbigide in   |            |        |          | Funding decisions approach contro-   |              |      |    | Strategic planning conference: How  |   |     |    |
| U.K. N   | Feb<br>Mar | 14     | 9        | versy N<br>Readies price and loan supports for six                               | Feb :        | 29   | 40 | the experts plan strategy (table) 3 P.M. Inc. — Acquired by McKesson N  | Mar :                                   |     | 11 |
| Monsanto wins round two N  | June       | 13     | 20       | synfuels projects N  | Apr          | 11   | 58 | Time Chemical — Health-Chem to sell   | Feb                                     | 1   | 9  |
| Round three: New Zealand court re-   |            |        |          | Sohio, Phillips and Sun Shale Oil will no  |              |      | 00 | subsidiary to group headed by Time  |   |     |    |
| strains Stauffer's activity for gly-   |            |        |          | longer seek loan or price guaran-  |              | _    |    | subsidiary to group headed by Time<br>Chemical president Drost N  | Jan                                     | 11  | 9  |
| phosate-based Touchdown herbi-<br>cide   | June       | 20     | 23       | Solv-Ex withdraws its application for  | Mar          | 7    | 40 | lono Ganryo — Silica-encapsulated lead  |   |     |    |
| Pesticides: abolishes early-buy pesti-   | dano       | 20     | 20       | aid for Santa Rosa tar sands proj-   |              |      |    | chromate pigments: ITC ban on im-<br>ports upheld: Du Pont patent infringe-   |   |     |    |
| cide marketing program N   | May        | 2      | 9        | ectN   | Jan          | 4    | 44 | ment suit still pending R   | June                                    | 6   | 17 |
| Product Safety Dept., new depart-  |            |        |          | Thompson, Victor M. resigns N  | May          | 2    | 44 | ment suit still pending R Tokyo Seikan Kaisha — Coextrusion   |   |     |    |
| ment   | May        |        | 17       | Thompson resigns: SFC has the stag-<br>gers                                      | Many         | 9    | 19 | technology.  Toray Industries — Aramid fiber joint venture with Du Pont N   | Mar                                     | 14  | 52 |
| Soda ash prices N<br>Sulfuric acid prices N  | May        | 20     | 60<br>31 | To the White House: Reconsider   | May          | 9    | 19 | Toray Industries — Aramid fiber joint   | May                                     | 22  | 18 |
| Time-release herbicides: Capsolane —   | retay      | 6      | 31       | synfuels cuts  | June         | 6    | 40 |   | way                                     | 23  | 10 |
| micro-encapsulated Eradicane (EPTC)  |            |        |          | Synthetic Products — Dart & Kraft un-  |              |      |    | Eli/Toray   | Apr                                     | 18  | 28 |
| herbicide  | May        | 23     | 32       | loads its plastic specialties  | Apr          | 18   | 12 | Sales and earnings 1983 N   | June                                    | 6   | 18 |
| Stearns Catalytic World — New direc-   | Apr        | 4      | 30       | -  |              |      |    | Total Oil Great Britain — MTBE plant  |   |     |    |
| tions for engineering companies<br>Stepan — Sales and earnings, 1983 N                           | Feb        |        | 9        |  |              |      |    | planned at Lindsay refinery at Humber-<br>side  | June                                    | 13  | 20 |
| Sterling Drug — Greece: Papandreou's   |            | -      |          |  |              |      |    | side  |   |     |    |
| squeeze drives drug firms out  | Feb        | 8      | 15       | TATA Committee and the factor  |              |      |    | metallic chlorides plant N  | Feb                                     | 15  | 33 |
| Stone & Webster — Solid Circulation  |            |        |          | TAFA — Corrosion protection for iron   | Jan          | 11   | 32 | Townsend, Phillip Associates — Paint  | 1400                                    | 14  | 66 |
| Boiler promises to burn cheap fuels<br>efficiently (diagram)                                     | him        | e 20   | 44       | T. H. Agriculture & Nutrition — Agent  | Jan          | 11   | 32 | containers Toyo Engineering — Contract for Chinese carbon black plant. N Toyo Ink Manufacturing — Buys Du Pont  | Mar                                     | 14  | 55 |
| Storage Technology — Optical-disk tech-  | our        | 0 20   | 44       | Orange case — Tentative settlement:  |              |      |    | carbon black plant  | May                                     | 2   | 20 |
| nology joint venture with Du Pont: Du  |            |        |          | payments N<br>TMS Analytical Services — TAGA, "super                             | May          | 23   | 4  | Toyo Ink Manufacturing — Buys Du Pont   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |     |    |
| Pont buys the right to use the technol-  |            | - 40   |          | TMS Analytical Services — TAGA, "super   | Mari         | 20   | 05 | technology and marketing information  |   |     |    |
| Strategic Analysis — Water-treatment   | Jun        | e 13   | 9        | sniffer" will be leased out  | May          | 30   | 35 | for copper phthalocyanine blue pig-   | Apr                                     | 11  | 24 |
| chemicals market   | Mai        | 7      | 12       | 40% of two mobile TAGAs, for leasing.  | May          | 30   | 35 | ment products. N<br>Modifying Fuji Pigment works: goes<br>after BASF pigment markets. N<br>Toyobo — Polyethylene fiber will be de-<br>veloped in loint effort with DSM. N | Api                                     | 11  | 24 |
| Sulzer Brothers — British methane puri-  |            |        |          | TRW — Beacon process: making syn-  |              |      |    | after BASF pigment markets N  | May                                     | 2   | 20 |
| fication plant will use Sulzer technol-  |            |        |          | gas from gasifiers' methane N  | Jan          | 11   | 32 | Toyobo — Polyethylene fiber will be de-   |   |     |    |
| ogy  | Jan        | 25     | 19       | Tate & Lyle — British Charcoals and Mac-<br>donalds see under name               |              |      |    | veloped in joint effort with DSM N  | Mar                                     | 21  | 20 |
| ment effort for EG production from   |            |        |          | Taylor Instrument — Process control:   |              |      |    | natural das: Morgan Stanley with  |   |     |    |
| synthesis gas  | Ma         | r 7    | 35       | Where hardware and software clash  | Jan          | 25   | 20 | Transco Energy and Akin, Gump,  |   |     |    |
| Japan's chemicals: Not well but better   |            |        |          | Software modules to save energy N  | Jan<br>Feb   | 8    | 34 | Transco Energy — A clearinghouse for<br>natural gas: Morgan Stanley with<br>Transco Energy and Akin, Gump,<br>Strauss, Hauer & Feld plans to open                         |   |     |    |
| (charts)   | Apr        | 11     | 51       | Technical Database Services — Parti-   | lan          | 10   | 00 | the U.S. Natural Gas Clearinghouse  | June                                    | 27  | 9  |
| Polyacrylonitrile joint venture with Her-<br>cules   | Feb        | 29     | 5        | tion coefficients are available online . N                                       | Jan          | 18   | 38 | Travelers Insurance — Colorado ruling in-<br>volving Dow's Rocky Flats Nuclear  |   |     |    |
| Sales and earnings 1983 N Mar 7-19, N  | Ma         |        | 20       | Technicon — Medical diagnostics: A red-<br>hot market for chemicals and hard-    |              |      |    | Weapons Plant case: radiation ruling  |   |     |    |
| Singapore's Merbau Island petrochem-   |            |        |          | ware (table)   | Feb          | 29   | 30 | precedent   | May                                     | 9   | 22 |
| ical complex readied for startup . N   | Jan        | 1 4    | 16       | Technology Catalysts — Making new  | A            |      | 40 | Travenol-Genentech Diagnostics — Bax-   |   |     |    |
| Singapore unit: China may become the<br>single largest client for LDPE and                       |            |        |          | rechnology Development Associates —  | Apr          | 11   | 46 | ter Travenol and Genentech joint ven-   | Feb                                     | 29  | 31 |
|  | Ma         | r 14   | 28       | Partnership to research marine op-   |              |      |    | ture  | reu                                     | 20  | 31 |
| "Special adsorbent" used to extract gallium from bauxite   |            |        |          | portunities  | May          | 30   | 34 | its toll  | Jan                                     | 11  | 11 |
| gallium from bauxite N   | Fet        | 22     | 32       | Technology Transfer Conferences -  |              |      |    | its toll  |   | _   |    |
| Sumitomo Electric Industries — Fiber-<br>optics patent squabble with Corning                     |            | 18     | 17       | Making a university/industry match<br>Techsonic Industries — Mann's Bait divi-   | Feb          | 15   | 20 | response system) software package   | Mar                                     | 7   | 36 |
| Sun Chemical — Ault & Wiborg Group   | - Apr      | 10     |          | sion contract to Aquanautics for fish-   |              |      |    | Trunkline LNG — LNG imports from Al-<br>geria: DOE ends proceedings N   | Mar                                     | 21  | 84 |
| additional shares purchased F  | Ma         | r 21   | 19       | feeding stimulant: Aguanautics de-   |              |      |    | Tuscarora Plastics — Arco's new ex-   |   |     |    |
| General Printing Ink: For printing<br>water-based inks come on strong                            |            |        |          | develops protein-based chemical coat-  |              |      |    | pandable plastic used in dunnage  |   |     |    |
| (chart)  | An         | r 18   | 10       | ing for bass lures   | Jun          | e 13 | 17 | traysN  | May                                     | 30  | 9  |
| Xviene prices  | Jar        | 1 4    | 20       | notycarhonate plant N  | Mar          | 7    | 19 | Twentieth Century Fund — Science in the<br>streets: Let's clean up the act — View-  |   |     |    |
| Sun Coast Plastics - Buys out Custom   | 1          |        |          | Tecnon UK Chlor-alkali in Europe   | Feb          | 1    | 27 | point   | May                                     | 9   | 3  |
| Xylene prices N<br>Sun Coast Plastics — Buys out Custom<br>Energy Services, partner in Sun Coast | 44-        |        | 40       | Teilin — Factor VIII developments  | Jan          | 11   | 24 |   |   |     |    |
| Plastics Sales joint venture F<br>Linerless closures license granted to                          | Ma.        | ar 28  | 19       | Factor VIII race   | May          | 9    | 17 | 11  |   |     |    |
| Mitsubishi   | Ma         | ar 28  | 19       | Products files damage suit against the   |              |      |    | U   |   |     |    |
| Sun Maid Growers - Raisins in a re   |            |        |          | installers and providers of new tele-  |              |      |    |   |   |     |    |
| sealable cardboard canister  | Jai        | n 18   | 26       | phone system   | Jun          | e 13 | 17 | LICAR Emulsion Systems LIC secretary  |   |     |    |
| Sun Shale Oil — Informs SFC it will no<br>longer seek loan or price guarantees N                 |            | ar 7   | 40       | Temana International — Shell will merge<br>unit with Akzo Consumer Products N    | 140          | y 23 | 18 | UCAR Emulsion Systems — UC reorgan-<br>izes latex business operations R   | May                                     | 16  | 24 |
| Suncor — Canada's synfuels: a cautious   | 3          |        |          | Tenneco Minerals — Water worries delay   | met          | , 23 | 10 | UKF — EEC fertilizer makers squabble:   |   |     |    |
| phoenix  | Fe         | b 22   | 40       | FMC trong project in Wyoming N   | Jan          | 25   | 9  | Dutch fertilizer competition is still "un-  |   |     | 10 |
| Sungene Technologies — Making nev  | A-         | . 44   | 40       | Tenneco Polymers — PVC makers are  |              |      |    | fair"   | Jun                                     | e 6 | 16 |
| ventures go.<br>Sunohio — Chemical process for PCE   | AP         | r 11   | 46       | smiling again (chart)  | Apr          | 4    | 24 | gives Standard Oil stake in uranium   |   |     |    |
| destruction  | Ju         | ne 20  | 40       | prices N   | Ma           | v 2  | 31 | business: General Atomic will assume  |   |     |    |
| Superior Oil — Mobil proposes acquisi  | -          |        |          | Sulfuric acid prices N   | Jun          | e 27 |    | UNC's obligation to repay uranium to a  | 4                                       |     | 0  |
| Survino — Poly chlorony, ne rubber dumo  | Ma<br>Ma   | ay 23  | 4        | Tennessee Eastman — Acetic anhydride   | •            |      |    | utility company N UTI Instruments — Air Products acquires minority interest   | Jun                                     | e 6 | 9  |
| Suzugo — Pol, chloroprone rubber dump<br>ed in U.S., Commerce Dept. finds                        | V Fe       | b 1    | 25       | from coal plant at Kingsport, Tenn. with   |              |      |    | minority interest.  | Apr                                     | 11  | 23 |
| Syconex — CO monitor   | v Ap       |        | 30       | Texaco gasifiers and some processing<br>wrinkles (diagram)                       | Apr          | 18   | 34 | Ube Industries — Ethylene glycol route  | 4.                                      |     |    |
| Sylvachem — The prospects are mixe   | d          |        |          | Letter     Tennessee Gas Pipeline — Natural gas                                  | Jun          | e 27 |    | using a rhodium catalyst: A cheaper   | 8.4-                                    |     |    |
| for tall oil   | . Ma       | ar 7   | 20       | Tennessee Gas Pipeline — Natural gas   |              |      |    | route to glycol? — Viewpoint  | Ma                                      | 7   | 3  |
| bet on tall oil specialties  | . Fe       | b 15   | 11       | rate reduction   | ı Jan        | 18   | 9  | Ethylene glycol: Massive restructur-<br>ing in a 'crummy business' (charts)   | Mai                                     | 7   | 32 |
| Syncor International — Medical diagnos   | h-         |        |          | propylene unit will be completed in  |              |      |    | Unde - Single cell at Bayer's Leverkusen  |   |     |    |
| tice, monoclonal antibody pregnanc   | у          | h 00   | 24       | July   | R Ma         | y 2  | 18 | complex   | Feb                                     | 22  | 20 |
| Syncrude Canada — Canada's synfuels  | . FE       | eb 29  | 34       | Cationic monomers business to be sold  | 1            |      |    | ultramar — Unimar partnership bid for<br>acquisition of Enstar meets resistance. N  | Mar                                     | ,30 | 9  |
| a cautious phoenix   | . Fe       | eb 22  | 40       | to Virginia Chemicals  | ма           | r 21 | 9  | Ultrasystems — Plant-derived diesel fuel. R   | Apr                                     | 25  | 22 |
| Syndicat des Producteurs de Matiere  | 8          |        |          | dride from coal plant at Kingsport   |              |      |    | Umetco Minerals — UC's new subsidiary   |   |     |    |
| Plastiques — Words of caution on plas  | 2.         |        |          | Tenn. (diagram)  | Apr          | 18   | 34 | consolidates mineral operationsR  | Apr                                     | 11  | 23 |
| tics growth  Syndicat Francaise des Tectiles Artifice et Synthetiques — Good year fo             | N JU       | ine 20 | 50       | Tenn. (diagram)<br>Getty Oil acquisition bid; whither Get                        |              |      |    | Unie van Kunstmestfabrieken ICL rock  |   |     |    |
| et Synthetiques - Good year fo   | 0          |        |          | ty's chemicals? (chart)  | Jar          | 18   | 11 | used to make phosphoric acid, which is sold to Amfert on a tolling basis  | Feb                                     | 8   | 21 |
| France's synthetic libers  | N A        | pr 25  | 25       | Getty's Northeastern and Middle Atlan<br>tic marketing activities, about 600     | 5            |      |    | Unifos Kemi - Swedish government ap-  | , 36                                    |     |    |
| Synergen — Agreement with Grace I  | 0          |        |          | stations, to be sold to Power Test F   | i Fet        | 8 0  | 16 | proves acquisition by Finland's Neste N   | Apr                                     | 4   | 18 |
| develop microorganisms that make<br>flavors and fragrances                                       |            | lay 2  | 37       | Glycol ethers: A coming ban on fou   | r            |      |    | Unigene Laboratories — Charter member<br>of the Association of Biotechnology  |   |     |    |
| flavors and fragrances MEOR firm about to go public  | , is       | an 25  | 58       | glycols? (table)   | Fel          |      |    | Companies (table)   | Jan                                     | 25  | 13 |
| Syntex — Choline chloride antidumpin   |            |        |          | The recent freeze takes its toll   | Jar<br>I Fel | 1 11 |    | Unilever — Sales and earnings 1983N   | Ma                                      |     | 20 |
| Cymen chambe dimense anneange  |            |        |          |  |              |      |    |   |   |     |    |

| Unimar — Bid for acquisition of Enstar   |   |  |   | United Desiccants - Belen, N.M. plant  |  |   | W                                     | aste Management — Bid for SCA Ser-   |   |   |  |
|--|---|--|---|--|--|---|---------------------------------------|--|---|---|--|
| meets resistance   | May   | 30   | 9   | to make 15 grades of desiccant clay  | Feb I  | B 16  |                                       | vices: acquisition bid could strengthen both firms (chart)   | June  | 20  | 17   |
| pricesN  | June  | 20   | 60  | products   |  |   | W                                     | elex — Feedblock coextrusion patent suit with Dow settled  |   |   |  |
| Tall oil acids prices N Tall oil business  | May   | 9  | 60<br>12  | company  | Apr 1  | 8 28  | w                                     | suit with Dow settled  | May   | 2   | 19   |
| Union Carbide — Acquires Catalyst Tech-  | 1 60  | 10   | 16  | Lab instruments for rent   | Jan 18   | 8 14  |                                       | of animal health operations into new   |   | -   | 40   |
| nology, another step into services, which will become a subsidiary of  |   |  |   | U.S. Export-Import Bank — Moroccan phosphate loan denied   | May 5  | 9 60  | W                                     | company, Coopers Animal Health R<br>esley Water Chemicals — Swimming-  | Mar   | ,   | 16   |
| Linde Div N<br>EPA R&D: chemical majors join push  | May   | 2  | 9   | phosphate loan denied N<br>U.S. Industrial Chemicals — Continuous  |  |   | •                                     | pool chemicals: calcium hypochlorite   |   |   |  |
| EPA R&D: chemical majors join push   | Apr   | 11   | 58  | fermentation: pilot plant manufactures<br>ethanol from corn  | Feb 2  | 2 44  |                                       | at a grass-roots plant in Montrose,<br>Ala.  | Mar   | 7   | 11   |
| for more funding N<br>Ethylene glycol route using a rhodium  | Apr   |  | 30  | Ethyl ether prices   | June 13  |   | W                                     | estchester Window - Acquired by  |   |   |  |
| catalyst: A cheaper route to glycol?   | Mar   | 7  | 3   | National Distillers & Chemicals see<br>under name  |  |   | 100                                   | Ethyl  | June  | 6   | 17   |
| Viewpoint  Ethylene glycol: Massive restructur-  | Mar   | ,  |   | U.S. Natural Gas Clearinghouse — Morgan  |  |   | vv                                    | Capacitor  | Feb   | 1   | 30   |
| ing in a 'crummy business' (charts)  | Mar   | 7  | 32  | Stanley plans to open a clearinghouse  |  |   |                                       | Fluidized-bed combustion know-how:   |   |   |  |
| Ethylene oxide output stepped up: re-<br>starting EO I unit at Taft, La N  | Jan   | 25   | 9   | for natural gas with Transco Energy<br>and Akin, Gump, Strauss, Hauer & Feld   | June 27  | 9   |                                       | joint company with Signal's Kellogg-<br>RustN  | Apr   | 25  | 30   |
| Gas: Industrial gases prices N Apr   |   |  |   | United States Instrument Hentals — United  |  | -   |                                       | Joint synfuels company will be set up  |   |   |  |
| 11-38, N<br>Glycol ethers: A coming ban on four  | Apr   | 18   | 20  | States Analytical Instruments: Now, lab  | Jan 18   | 3 14  |                                       | Joint synfuels company will be set up<br>with Kellogg Rust N<br>Silicon: Improving silicon for defense N   | Feb<br>Feb  | 8   | 34   |
| glycols? (table)   | Feb   | 8  | 13  | instruments for rent   |  |   | W                                     | eston Designers and Consultants -  |   |   |  |
| Hydrogen prices  | Feb   | 21   | 25<br>66  | proofing sealant for asbestos  | June 20  | 34  | W                                     | eston Designers and Consultants —<br>TAGA, "super sniffer", leased<br>lestvaco — Paper and plastic vie for   | May   | 30  | 35   |
| Inventories: How companies are hold-   |   |  |   | tasote nurchases Flexhide single-ply   |  |   |                                       | the milk container (chart)   | Feb   | 1   | 14   |
| ing down inventories (charts) Investor relations. Courting with more   | Feb   | 8  | 28  | roofing membrane business R<br>U.S. Natural Gas Clearinghouse — Morgan   | Mar 21   | 18  |                                       | System to control the harmful effect of<br>corrosive gases on electronic con-  |   |   |  |
| finesse (tables)   | Feb   | 15   | 34  | Stanley plans to open clearinghouse  |  |   |                                       | trol devices   | Mar   | 14  | 46   |
| IsoSiv process license granted to Bul-   | Jan   | 44   | 16  | Stanley plans to open clearinghouse for natural gas with Transco Energy  | home Of  | 7 9   |                                       | /eyerhaeuser — Paper and plastic vie   | Feb   | 1   | 14   |
| garian Chemical IndustryR — Correction   | Feb   | 8  | 5   | and Akin, Gump, Strauss, Hauer & Feld<br>U.S.S. Agri-Chemicals — Phosphate mine  | June 27  | 9   | W                                     | for the milk container (chart)   | 1.60  |   | 1-9  |
| Katalistics' fluid cracking catalysts  |   |  |   | in Rockland, Fla. to reopenR   | Mar 28   | 19  |                                       | be sold as Advil: ibuprofen's contested  | lune  |   | 12   |
| business to be acquired  | Mar   | 21   | 13  | USS Chemicals — Benzene prices; stocks   | May 23   | 3 25  | W                                     | road over the counter  | June  | 0   | 12   |
| sion   | May   | 30   | 17  | plummet  | May 9  | 9 60  |                                       | sives plant planned at Warren, expan-  | 5.4   |   |  |
| packaging; fluorination processes  |   |  |   | Polypropylene prices N<br>Upjohn — Bovine growth hormone agree-  | Apr 11   | 1 38  | W                                     | sion at Oklahoma City  | Feb   | 15  | 9  |
| for barrier market   | Mar   | 14   | 50  | ment with Amgen  | May 2  | 3 9   |                                       | Kraft unloads its plastic specialties  | Apr   | 18  | 12   |
| Linde Div.: Sales are up, but margins are thin for air gases   | Feb   | 22   | 24  | High-level shift could result in a trend away from chemicals N   | June 2   | 7 7   |                                       | /inston Technologies — Acquired by Hercules  | Apr   | 4   | 11   |
| Mineral consolidation: new subsidiary,   | 1 00  |  |   | Ibuprofen will be sold as Bristol-Myers'   | ourie 2  |   | W                                     | /inzler and Kelly Consulting Engineers -   |   |   |  |
| Umetco Minerals R  | Apr   | 11   | 23  | Nuprin: ibuprofen's contested road   | June (   | 6 12  |                                       | Bromine chemicals report: Why the EDB health flap may hurt bromine   |   |   |  |
| Packing: UC does not agree there is a<br>shift toward the use of packing in  |   |  |   | over the counter   |  |   |                                       | (chart)  | Feb   | 15  | 10   |
| process plants   | June  | 13   | 18  | tracers.  Minoxidil high blood pressure medica-  | Feb 2  | 9 33  | V                                     | vitco Chemical — Acquires certain as-<br>sets of Monsanto's specialty polymeric  |   |   |  |
| Paint thickeners plant at Bound Brook,<br>N.J.   | Feb   | 29   | 12  | tion being studied as a hair stimu-  |  |   |                                       | plasticizer business   | June  | 13  | 17   |
| N.J  |   |  |   | tion being studied as a hair stimu-<br>lant  | Mar 2  | 8 19  | 1                                     | Allied-Kelite's electroless nickel facility  | May   | 22  | 17   |
| tas  | Mar<br>Feb  |  | 11  |  | May 2  | 3 35  |                                       | doubles plating chemicals capacity . R Ethylene bisamide pricesN Foam patent suit: Mobay Chemical  | Apr   | 25  | 57   |
| Polyethylene capacity upped at Taft,   |   |  |   | Photoinitiator available   | Jan 1  |   | 1                                     | Foam patent suit: Mobay Chemical   |   |   |  |
| La. plant  | Feb<br>June   |  | 9   | Uranium Pechiney — Recovering mine-<br>rals from clay-bearing ores N   | June 1   | 3 34  |                                       | and Peachtree Doors found guilty<br>of patent infringement; Mobay also   |   |   |  |
| Reorganizes latex business operation   |   |  |   | rate treat day seeming cross   |  |   |                                       | judged guilty of breaching a license   | li imm  |   | 44   |
|  |   |  | 24  |  |  |   |                                       | agreement  | June  | 0   | 11   |
| as UCAR Emulsion Systems R   | May   | 10   |   | ***  |  |   |                                       |  |   |   |  |
| transformers developedR  | May   |  | 12  | V  |  |   |                                       | Investor relations. Courting with more finesse (tables)  | Feb   | 15  | 34   |
| transformers developedR<br>Unifos Kemi's acquisition by Neste ap-  | Feb   | 29   |   | V  |  |   |                                       | finesse (tables)   |   |   |  |
| system to remove PCBs from electrical<br>transformers developed. R<br>Unifos Kemi's acquisition by Neste ap-<br>proved. N<br>Uranium producers: Far-off silver lin-  |   |  | 12<br>18  | VAW — Quebec lures industry with cheap   |  |   |                                       | finesse (tables). Isofoam urethane foam business sold to Plastics Management R Sulfonation/sulfation capacity expan-   | Feb<br>Feb  |   | 34<br>16   |
| system to remove PCBs from electrical<br>transformers developed. R Unifos Kemi's acquisition by Neste ap-<br>proved. N Uranium producers: Far-off silver lin-  | Feb   | 29<br>4  |   | VAW — Quebec lures industry with cheap<br>hydropower: smelter project considered   | May 2  | 3 22  |                                       | finesse (tables). Isofoam urethane foam business sold to Plastics Management R Sulfonation/sulfation capacity expansion for production of surfactants at   | Feb   | 15  | 16   |
| system to remove PCBs from electrical<br>transformers developed. R<br>Unifos Kemi's acquisition by Neste ap-<br>proved. R<br>Uranium producers: Far-off silver lin-<br>ings (chart). Union Carbide Canada — Sales and earn-<br>ings: first-quarter '84. N  | Feb<br>Apr<br>Apr<br>May  | 29<br>4<br>11<br>9   | 18<br>12<br>25  | VAW — Quebec lures industry with cheap hydropower: smelter project considered VLS Protective Coatings — Asbestos containment: A controversial atternative.   | May 2  |   | ?<br>}                                | finesse (tables). Isofoam urethane foam business sold to Plastics Management   | Feb   | 15  | 16   |
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